

# Markal®

*Nissen*®

by Markal

*Tempil*®

LA-CO®

ALL-WEATHER®



LA-CO INDUSTRIES

[www.markal.com](http://www.markal.com)



# Markal®

**MARKAL®** je globalni lider u proizvodnji runih industrijskih proizvoda za markiranje visokih performansi. Sa naših severnoameričkih i evropskih proizvodnih lokacija, mi podržavamo vredne izvoaere radova koji grade velike svetske mostove, brodove, automobile, kuće, kancelarijske zgrade, elektrane i mnoga druga inženjerska čuda sa **MARKAL®** proizvodima.

Danas se proizvodi marke **MARKAL®** prodaju širom sveta. Ova široka mreža dugoročnih poslovnih partnera pruža našim klijentima najviši nivo usluge.

# Tempil®

**Tempil®** je industrijski lider u naprednim i preciznim tehnologijama za indikaciju temperature. Od zaštite NASA Space Shuttle Orbitera do merenja kritičnih temperatura lekova i uređaja koji spašavaju život, inženjeri i profesionalci se oslanjaju na tačnost **Tempil®**-a za najvažnije primene. Postavljanjem globalnih standarda inovativnih, korisničkih rešenja, brendirani proizvodi **Tempil®** proizvode rešenja za površinsko merenje, kada i gde klijenti najviše trebaju.

# LA-CO®

Naš **LA-CO®** brend visokokvalitetnih vodovodnih instalacija visokih performansi i HVAC hemikalija je globalni pouzdan partner za profesionalne izvođače radova. Od kuća do nebodera do zgrade američkih Nacionalnih arhiva u Vašingtonu, **LA-CO®** brendirane niti za zaptivanje, fluks, proizvodi za zaštitu od toplote i zaptivači za zaštitu štite najvažnije dokumente iz njegove istorije i održavaju najvrednije prirodne resurse na svetu. Mi smo ponosni da služimo mnogim industrijama sa našim kvalitetnim hemijskim jedinjenjima.

# ALL-WEATHER®

The **All-Weather®** brend oznaka i proizvoda za identifikaciju stoke je najpouzdaniji brend na svetu za upravljanje stadom na farmama mlečnih proizvoda i svinja. Naši proizvodi za obeležavanje stoke **All-Weather®** su pomogli u globalnom povećanju veličine stada i pružili jeftina, efikasna rešenja za detekciju toplote životinja, vakcinaciju, osemenjivanje i druge potrebe za upravljanje stadom.



Već skoro 85 godina, Markal se ponosno bavi proizvodnjom i snabdevanjem najveće industrijske marke. Proizvodi navedeni sa ovim simbolima napravljeni su ili u SAD-u ili Evropi sa najvećom pažnjom na kvalitet i pouzdanost.



Proizvodi označeni ovim simbolom deo su naše selekcije proizvoda "Zelena rešenja za održivost". Ovi proizvodi ispunjavaju mnoge ili sve specifikacije za smanjenje zdravstvenih i bezbednosnih problema, proizvedenih korišćenjem održivih i / ili recikliranih materijala, niskih nivoa VOC, i usaglašenosti sa RoHS



Nestabilno organsko jedinjenje (VOC) je vrsta potencijalno štetnog gasa koji emituje određena čvrsta materija ili tečnost, što šteti kvalitetu unutrašnjeg vazduha. Proizvodi sa ovim simbolom emituju manje količine štetnih VOC-a od drugih industrijskih markera.



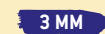
Međunarodni sistem podataka o materijalima (IMDS) je sistem podataka o automobilskoj industriji. Svi materijali koji se koriste za proizvodnju automobila prikupljaju se, održavaju, analiziraju i arhiviraju u IMDS. Globalni standard koji koriste gotovo svi globalni proizvođači originalne opreme, IMDS se koristi za ispunjavanje obaveza koje proizlaze od proizvođača automobila prema nacionalnim i međunarodnim standardima, uključujući i njihove zakone i propise.



Idealni za nerđajuće čelike i legirane metale, naši niskokorozivni markeri imaju nizak nivo hlorida, halogena i sumpora za zaštitu od neželjene degradacije, stvaranja bušotina ili generalnog slabljenja materijala. Za više informacija pogledajte naš Vodič za niskokorozivne oznake.



-46 °C → 66 °C Raspon markiranja



Veličina markiranja



Pakovanje

# TABELA ZA PRIMENU VRHUNSKIH PROIZVODA

	METAL			PLASTIKA			GUMA			STAKLO KERAMIKA			CIGLA KAMEN			DRVO PAPIR		
	Čisto, Suvo	Masno	Mokro	Čisto, Suvo	Masno	Mokro	Čisto, Suvo	Mokro	Hrapavo/Prljavo	Glavno	Hrapavo	Mokro	Glavno	Hrapavo	Mokro	Mokro	Sivo drvo	Papirkarton
<b>TEČNI MARKERI</b>																		
Valve Action Paint Marker	★			★			✓				★		✓			✓		✓
SL.100	★			★			✓			★			✓			✓		✓
PRO-LINE HP	✓	★		✓	★		✓			✓			✓			✓		✓
PRO-LINE WP	✓		★	✓		★	✓	★		✓		★	✓		★	✓		✓
PRO-LINE XT	✓			★	✓		★		★	✓	★		★	★		✓		✓
PRO-WASH	★			★						★			★					
<b>KUGLIČNI MARKERI</b>																		
Stylmark	★	★	★	★	✓	✓	✓	★	★	★	✓	★	✓	★	★	★	✓	✓
<b>KREDE</b>																		
B Paintstik	★		✓	★	✓			★	✓	★	✓	★	✓	★	★	★	★	★
Quik Stik & Quik Stik Mini	★			★	✓	✓	✓	★	★	✓	★	✓	★	★	★	★	★	★
<b>MARKERI SA MASTILOM</b>																		
DURA-INK	✓				✓						✓	✓					★	★
<b>MARKERI OPŠTE NAMENE</b>																		
TRADES-MARKER	✓			✓	✓			✓	✓	✓	✓	★	✓	★	✓	✓	✓	✓
China Marker	✓			✓	✓			✓	✓	✓	✓	★	✓	★	✓	✓	✓	✓
Trades Marker Dry	✓			✓	✓			✓		✓			✓			✓		★
FM.120				✓								✓	✓	★	✓	★	★	✓
<b>MARKERI ZA VARIOCE</b>																		
Silver Streak	★	✓	✓	★														
FM400	✓			✓														

★ Primarni izbor    ✓ Sekundarni izbor

## Za online usluge, probajte naš interaktivni "Find A Marker Tool":

- Pronađite odgovarajući marker za posao u 5 pitanja ili manje.
- Pretraživanje po industriji ili površini
- Traje manje od 30 sekundi
- Stranice proizvoda imaju deo #, slike, opise, SDS i druge prateće materijale

Try our Find A Marker tool!  
FIND THE MARKER THAT'S RIGHT FOR YOUR JOB

SURFACE EDIT

---

TYPE

Ashpalt- Concrete

Before painting surface

Brick- Stone

**Markal.com**

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## NOVI KONCEPT — MARKAL MALOPRODAJNA PAKOVANJA

Markal se uvek ponosio time što je inovativna kompanija koja odgovara zahtevima tržišta i uvek pazi na razvoj naše industrije. Zato uvek radimo na širenju raznolikosti našeg asortimana i pokušavamo da razvijemo pametnija rešenja za vas. Nedavno smo uočili rastući interes za pakovanje manjih količina. Stoga smo razvili novi koncept za Markalove industrijske markere: čitavu liniju maloprodajnih pakovanja, sa našim najatraktivnijim markerima u 1 do 5 jedinica.

- Maloprodajna pakovanja pružaju vredne informacije na prednjoj i zadnjoj strani, kao što su slike primena, dostupne boje, područja primene ...
- Zahvaljujući maloprodajnim pakovanjima, lako možete nabaviti nove predmete i videti njihov učinak na tržištu
- Maloprodajna pakovanja su efikasno rešenje za online poslovanje gde je obično potrebno manje pakovanje. Sa novim maloprodajnim paketima, nema potrebe da se razbijaju kutije i prepakuju: štedite vreme jer je vaš proizvod spreman za isporuku.
- Vaši klijenti su više zainteresovani da Markalovim proizvodima pokušaju jer nisu primorani da kupe celu kutiju.
- Maloprodajna pakovanja se lako i brzo stavljaju na police prodavnica zahvaljujući evropskim rupama za kačenje.
- Maloprodajna pakovanja su dostupni za 16 naših najprodavanijih proizvoda: predstavljanje čitavog asortimana vašim klijentima može da transformiše njihovu pažnju u interesovanje i podstakne unakrsnu prodaju zahvaljujući privlačnom dizajnu.
- Kartonska ambalaža koja štiti okolinu omogućava kupcu da vidi i oseti proizvod, a ipak jasna i diskretna plastična traka praktično čini proizvode ne ukradivim.

### Krede — Maloprodajno pakovanje

#### B PAINTSTIK®

- 22253 : 3 x Bela ○
- 22254 : 1 x ● Žuta + 1 x ● Crna + 1 x ● Crvena
- 22255 : 1 x ● Zelena + 1 x ● Plava + 1 x ● Narandžasta
- 22256 : 1 x ● Ružičasta + 1 x ● Zlatna + 1 x ● Srebrnasta

- QUIK STIK® MINI** • 22238 : 2 x ○ Bela + 1 x ● Žuta + 1 x ● Crvena + 1 x ● Crna



### Varilački ili markeri za opštu namenu — Maloprodajno pakovanje



#### TRADES-MARKER® DRY — WELDING

- 96281 : 1 Trades-Marker® Dry + 1 dopuna Silver-Streak® ●
- 22227 : 1 x dopuna Silver-Streak® ●
- 22228 : 1 x dopuna Red-Riter® ●

#### WELDERS PENCILS

- 22219 : 2 x Silver-Streak® ●
- 22220 : 1 x Silver-Streak® ● + 2 x Red-Riter® ●

#### SILVER-STREAK® ROUND — P.27

- 22221 : 1 holder Silver-Streak® + 2 dopune Silver-Streak® ●
- 22222 : 2 dopune Silver-Streak® ●

#### TRADES-MARKER® DRY — CONSTRUCTION

- 96264 : 1 Trades-Marker® Dry + 1 dopuna miks ●●
- 22223 : 1 dopuna crvena ●
- 22224 : 1 dopuna žuta ●
- 22225 : 1 dopuna grafit ●
- 22226 : 1 dopuna miks ●●

## Kuglični marker — Maloprodajno pakovanje

### SCPM

- 22211 : 2 x ● Crvena
- 22212 : 2 x ● Žuta
- 22213 : 2 x ● Zelena
- 22214 : 2 x ○ Bela
- 22215 : 2 x ● Plava
- 22216 : 2 x ● Crna
- 22217 : 2 x ● Narandžasta
- 22218 : 2 x ● Ljubičasta

### STYLMARK

- 22200 : 2 x ● Crvena
- 22201 : 2 x ● Žuta
- 22202 : 2 x ● Zelena
- 22203 : 2 x ○ Bela
- 22204 : 2 x ● Plava
- 22205 : 2 x ● Crna
- 22206 : 2 x ● Narandžasta
- 22207 : 2 x ● Ljubičasta
- 22208 : 2 x ● Siva
- 22209 : 2 x ● Ružičasta
- 22210 : 2 x ● Braon



## Tečni markeri — Maloprodajna pakovanja

### SL.100

- 22229 : 2 x ○ Bela, 2 x ● Žuta
- 22230 : 1 x ○ Bela, 1 x ● Žuta, 1 x ● Crvena, 1 x ● Plava
- 22231 : 1 x ○ Bela, 1 x ● Žuta, 1 x ● Zelena, 1 x ● Plava
- 22232 : 1 x ○ Bela, 1 x ● Crna, 1 x ● Crvena, 1 x ● Narandžasta
- 22233 : 1 x ● Ljubičasta, 1 x ● Ružičasta, 1 x ● Zlatna, 1 x ● Srebrna

### VALVE ACTION® • 22234 : 2 x

- Bela, 2 x ● Žuta
- 22235 : 1 x ○ Bela, 1 x ● Crvena, 1 x ● Plava, 1 x ● Crna

### PRO-LINE® HP • 22236 : 2 x

- Bela, 2 x ● Žuta
- 22237 : 1 x ○ Bela, 1 x ● Crvena, 1 x ● Plava, 1 x ● Crna



## Trajni markeri — Maloprodajno pakovanje



### DURA-INK® 5

- 22241 : 4 x ● Crna
- 22242 : 2 x ● Crna + 1 x ● Crvena + 1 x ● Plava

### DURA-INK® 15

- 22239 : 5 x ● Crna
- 22240 : 1 x ● Crna + 1 x ● Crvena + 1 x ● Plava + 1 x ● Srebrna + 1 x ● Zelena

### DURA-INK® 20

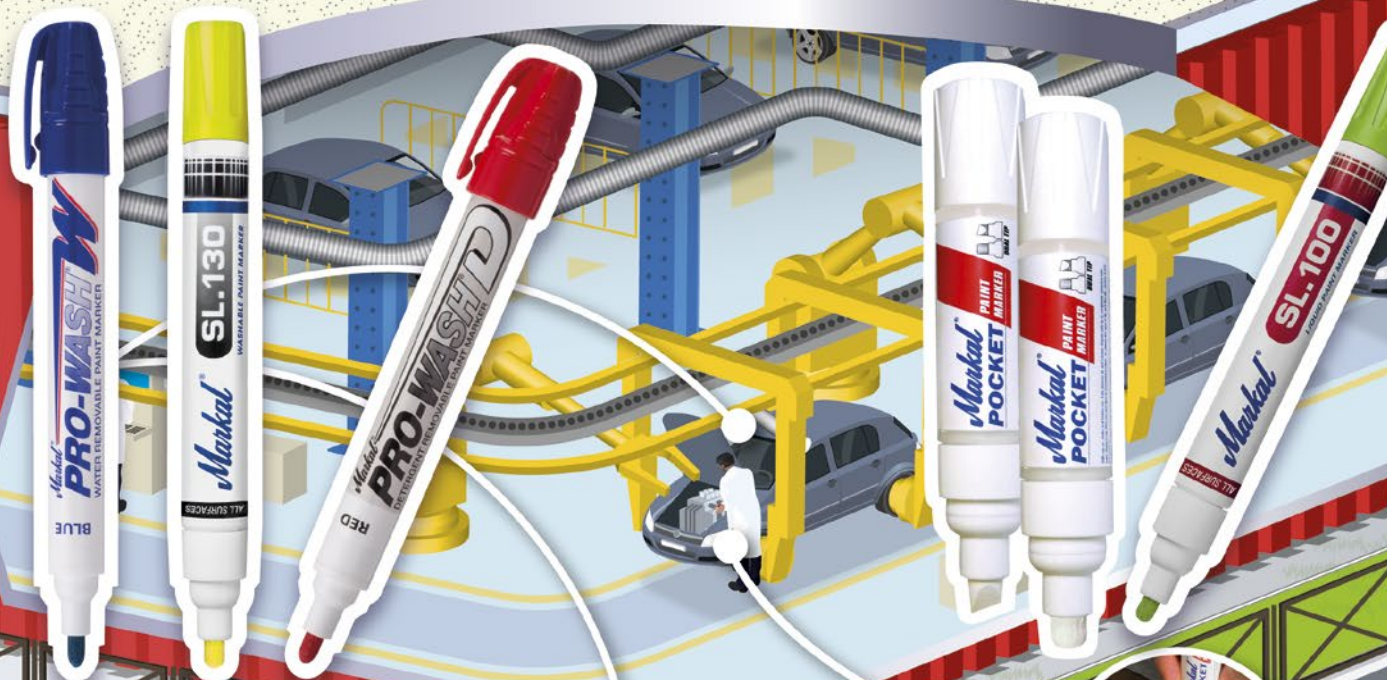
- 22251 : 3 x ● Crna
- 22252 : 2 x ● Crna + 1 x ● Crvena

### DURA-INK® 55

- 22243 : 2 x ● Crna
- 22244 : 1 x ● Crna + 1 x ● Crvena
- 22245 : 1 x ● Crna + 1 x ● Plava
- 22246 : 1 x ● Crna + 1 x ● Zelena

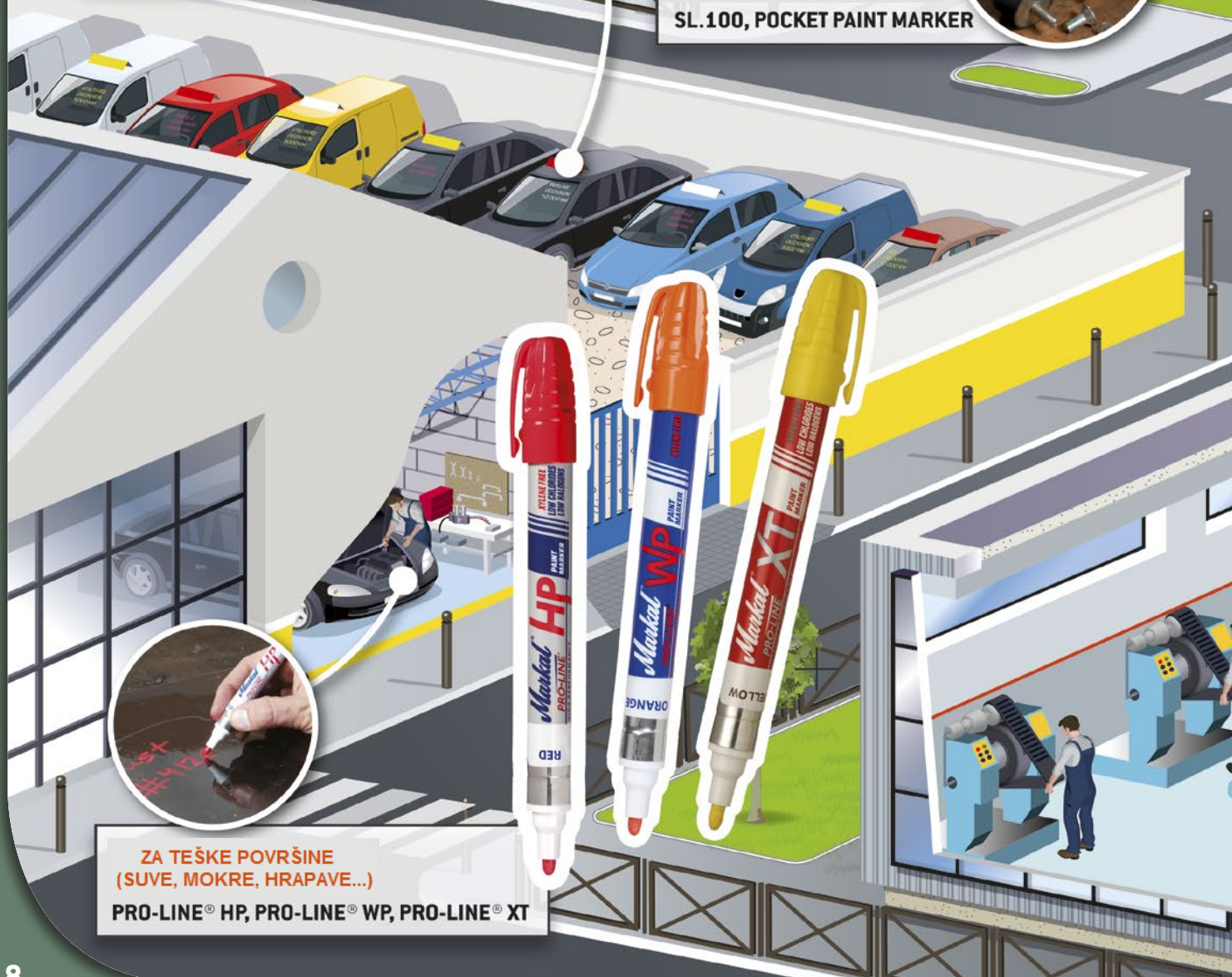
### DURA-INK® 60 •

- 22247 : 2 x ● Crna
- 22248 : 1 x ● Crna + 1 x ● Crvena
- 22249 : 1 x ● Crna + 1 x ● Plava
- 22250 : 1 x ● Crna + 1 x ● Zelena

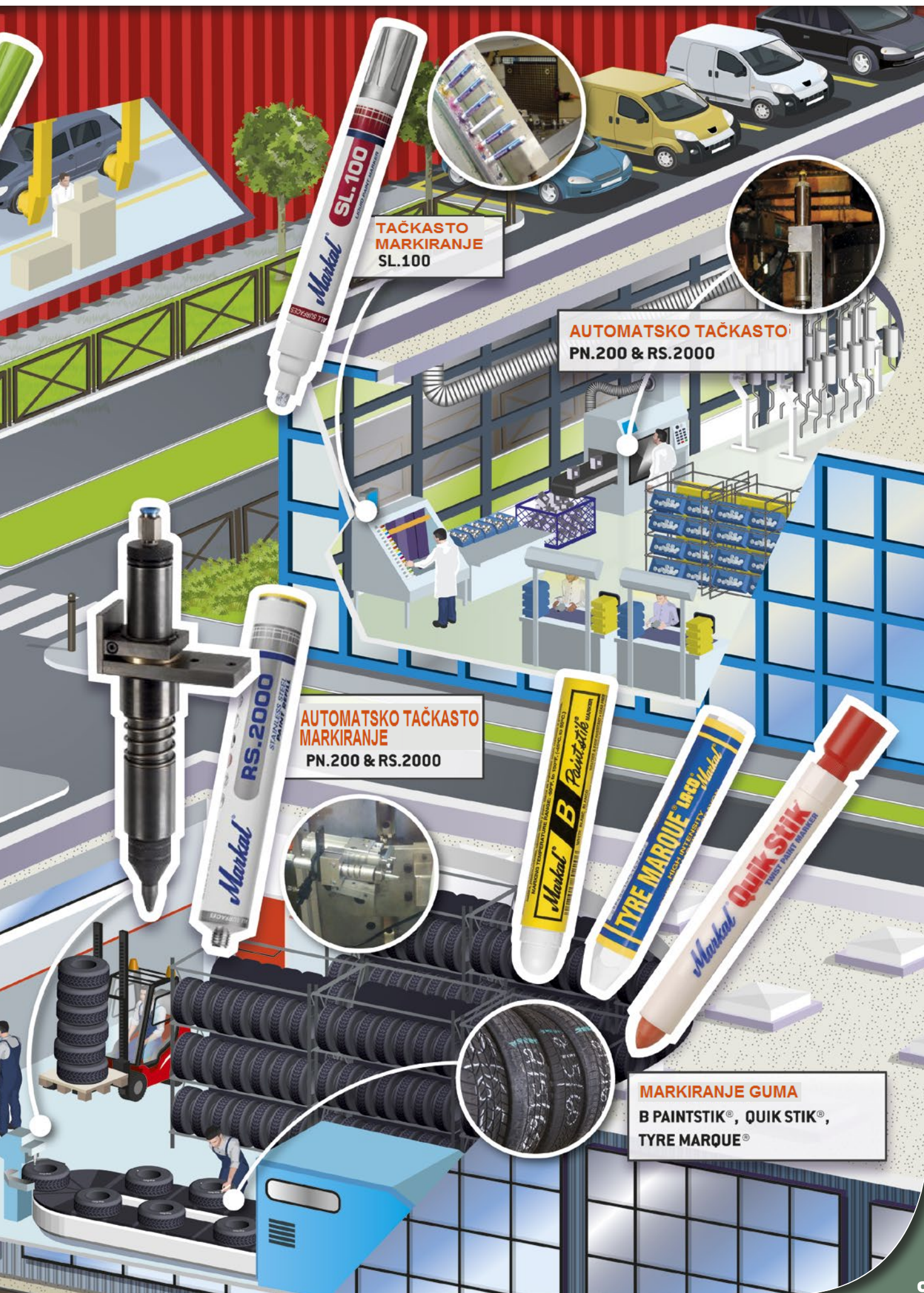


**IZBRISIVO MARKIRANJE**  
PRO-WASH® W & D, SL.130

**KONTROLA KVALITETA**  
SL.100, POCKET PAINT MARKER



**ZA TEŠKE POVRŠINE**  
(SUVE, MOKRE, HRAPAVE...)  
PRO-LINE® HP, PRO-LINE® WP, PRO-LINE® XT



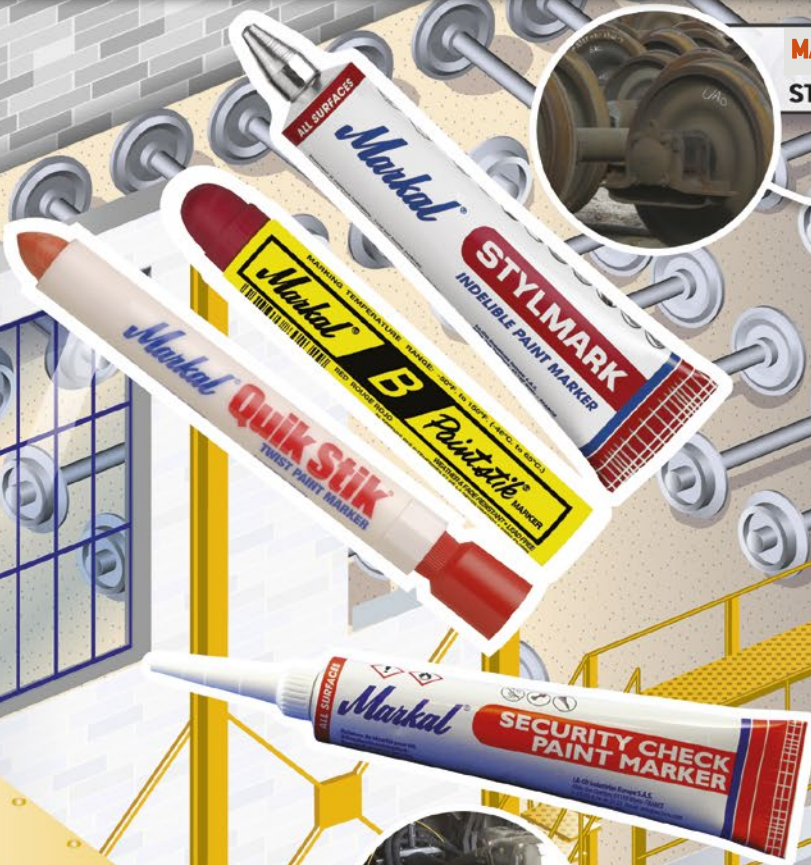
TAČKASTO  
MARKIRANJE  
SL.100

AUTOMATSKO TAČKASTO  
PN.200 & RS.2000

AUTOMATSKO TAČKASTO  
MARKIRANJE  
PN.200 & RS.2000

MARKIRANJE GUMA  
B PAINTSTIK®, QUIKSTIK®,  
TYRE MARQUE®

MARKIRANJE PROBLEMATIČNIH POVRŠINA  
STYLMARK, QUIK STIK®, B®



MARKIRANJE NA MASNIM POVRŠINAMA  
PRO-LINE HP



DIREKTAN VIZUELAN  
PREGLED I IDENTIFIKACIJA  
POPUŠTANJA USLED  
VIBRACIJE NA TERETNIM  
VAGONIMA, KOČNICAMA,  
VRATIMA, PANTOGRAFIMA...  
OZNAČAVANJE ODREĐENOG  
POLOŽAJA ZA ZATEZANJE  
ZAVRTKA

SECURITY CHECK PAINT MARKER



MARKIRANJE NA PROBLEMATIČNIM PVRŠINAMA  
STYLMARK, QUIK STIK®, B®



ODRŽAVANJE ŽELEZNIČKIH ŠINA  
(ZAGREVANJE PRE ZAVARIVANJA)  
TEMPILSTIK





**RASPORED I IZRADA METALA**  
**SILVER-STREAK®, SOAPSTONE,**  
**WELDERS PENCIL SILVER-STREAK® & RED-RITER®,**  
**TRADES-MARKER® DRY**



**UREĐAJI ZA MERENJE TEMPERATURE**  
**ESTIK™ (ELECTRONIC), IRT-16 (INFRARED)**



MARKIRANJE NA METALU  
PRO-LINE® XT,  
VALVE ACTION® PAINT MARKER



PROBLEMATIČNE POVRŠINE  
(RĐAVE, HRPAVE)  
STYLMARK, B PAINTSTIK®



ELEKTRIČNI GRAVER  
CA.003, VG.490



KREDA ZA INDIKACIJU TEMPERATURE  
TEMPILSTIK®, THERMOMELT® HEAT-STIK® CERTIFIED





DETEKCIJA TOPLOTE, IDENTIFIKACIJA  
PAINTSTIK®



UPRAVLJANJE ZDRAVLJEM, IDENTIFIKACIJA  
TWIST-STIK®, PAINTSTIK®



IDENTIFIKACIJA UŠNOM MARKICOM  
PLASTIC EAR TAG MARKER®



SORTIRANJE I IDENTIFIKACIJA  
QUIK SHOT® inverted tip



MARKIRANJE NA  
RAZNOVRNIM POVRŠINAMA  
B PAINTSTIK®

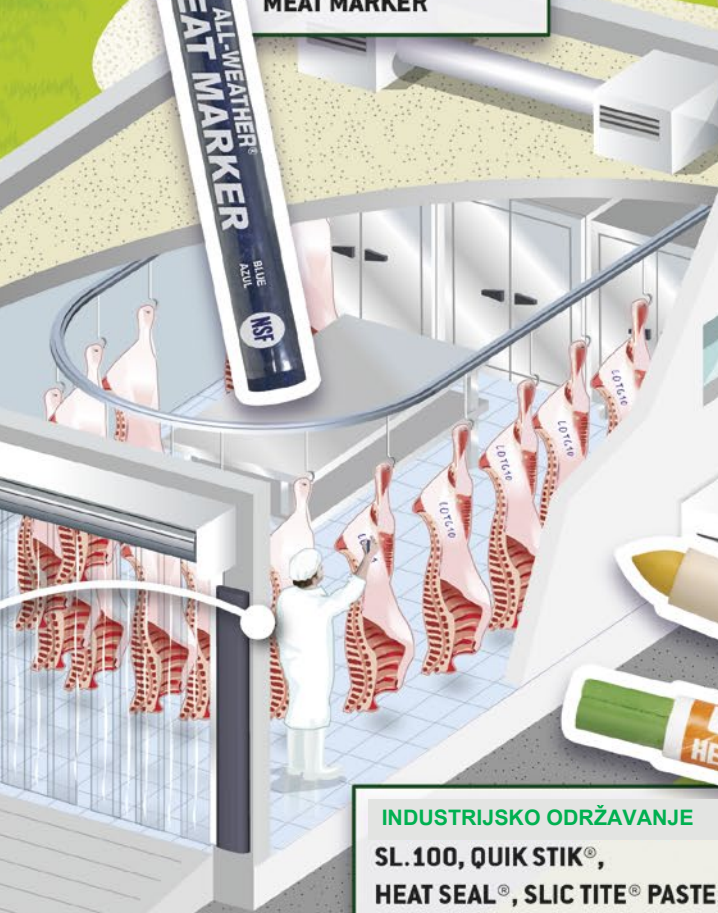


MARKIRANJE DRVETA,  
AUTOMATSKO ODSECANJE

SCAN-IT PLUS®, ULTRASCAN®



PRERADA MESA  
MEAT MARKER



INDUSTRIJSKO ODRŽAVANJE  
SL. 100, QUIK STIK®,  
HEAT SEAL®, SLIC TITE® PASTE...





## VALVE ACTION® MARKER — Tečni marker za opšte markiranje



Valve Action® je brzo sušeci marker koji pruža dugotrajne linije, otporne na habanje i vremenske uslove, koje su sigurni za gotovo svaku površinu. Kao najkompatibilniji marker tekuće boje na svetu, boja bez ksilena smanjuje zdravstvene rizike korisnika i dostupna je u 18 podebljanih i fluorescentnih boja za preciznu identifikaciju oznaka.



### DETALJI

96820	Bela*	96827	Zlatna*
96821	Žuta*	96828	Svetlo zelena*
96822	Crvena*	96830	Ružičasta*
96823	Crna*	96832	Aluminijum*
96825	Plava*	96835	Svetlo plava*
96826	Zelena*	97050	Žuta Fluo°
96824	Narandžasta*	97051	Zelena Fluo°
96817	Ljubičasta*	97052	Narandžasta Fluo°
96809	Braon*	97053	Ružičasta Fluo°

- 14 standarda i 4 fluorescentne boje za poboljšanu identifikaciju oznaka, kontrolu kvaliteta i kontrolu delova.
- Brzo sušenje, trajna boja za trenutno rukovanje smanjuje vreme zastoja u radu.
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 213 u SAD.
- Dura-Vrh srednji metalni vrh otporan je na habanje kako bi se osigurao dug vek trajanja
- Izdržljiva metalna bačva i poklopac smanjuju lom i lako se skladište u džepu

199002

VAPM Prikaz  
(10⊖+8⊕+2⊖+2⊕+  
2⊖+2⊖+2⊕+2⊕+2⊕)

### MALOPRODAJNA PAKOVANJA

22234 2x⊖ + 2x⊕  
22235 1x⊖ + 1x⊕ + 1x⊖ + 1x⊕



### MEHUR

96800	⊖	Bela*	96803	⊖	Crna*
96801	⊕	Žuta*	96805	⊕	Plava*
96802	⊖	Crvena*	96806	⊕	Zelena*

## SL.100 — Tečni marker za opšte markiranje



SL.100 je bez ksilena, brzo sušeci marker sa slabim mirisom koji pruža dugotrajne tragove za skoro svaku površinu. 15 neprozirnih, svetlih boja su otporne na vremenske i UV-zrake za odličnu identifikaciju oznaka.



### DETALJI

31240120	⊖	Bela	31240920	⊖	Sivo
31240220	⊕	Žuta	31241020	⊕	Ružičasta
31240320	⊖	Crvena	31241120	⊖	Braon
31240420	⊕	Plava	31241220	⊕	Svetlo plava
31240520	⊖	Zelena	31241320	⊖	Svetlo zelena
31240620	⊖	Crna	31241520	⊖	Srebrna
31240720	⊕	Narandžasta	31241620	⊕	Zlatna
31240820	⊕	Ljubičasta			

199001 SL.100 Prikaz (12⊖+8⊕+3⊖+3⊕+3⊖+3⊕)

### GARNITURA

31200120 SL.100 Kit (6 colours) (1⊖+1⊕+1⊖+1⊕+1⊖+1⊕)

22229 2x⊖ + 2x⊕  
22230 1x⊖ + 1x⊕ + 1x⊖ + 1x⊕  
22231 1x⊖ + 1x⊕ + 1x⊖ + 1x⊕  
22232 1x⊖ + 1x⊖ + 1x⊕ + 1x⊕  
22233 1x⊕ + 1x⊕ + 1x⊖ + 1x⊖

### MALOPRODAJNO PAKOVANJE

- 15 boja za odličnu identifikaciju oznaka, kontrolu kvaliteta i kontrolu delova
- Brzo sušeci, neizbrisiva trajna boja za trenutno rukovanje smanjuje vreme rada
- Boja bez ksilena smanjuje zdravstvene rizike korisnika
- Snažan srednji vrh metka otporan je na habanje kako bi se obezbedio dugačak životni vek markiranja
- Označajna otpornost na temperaturu: do 100 ° C (212 ° F)



## PRO-LINE® HP — Tečni marker za markiranje uljnih površina



-46 °C → 66 °C

3 MM



### DETALJI



96960	○ Bela* <sup>o</sup>	96967	○ Srebro* <sup>o</sup>
96961	● Žuta* <sup>o</sup>	96970	● Svetlo zelena <sup>o</sup>
96962	● Crvena* <sup>o</sup>	96971	● Svetlo plava* <sup>o</sup>
96963	● Crna* <sup>o</sup>	96972	● Zlatna <sup>o</sup>
96964	● Narandžasta <sup>o</sup>	96973	● Ružičasta* <sup>o</sup>
96965	● Plava* <sup>o</sup>	96974	● Ljubičasta <sup>o</sup>
96966	● Zelena <sup>o</sup>	96975	● Braon* <sup>o</sup>
199005	HP Prikaz (12○+8●+3●+3●+3●+3●)		

- Jedinstvena formula boje otporna je na širenje i brzo se suši kroz masne površine kako bi ostavila precizne, trajne tragove
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.
- Izdržljiva metalna bačva i šiljak smanjuju lom zbog dužeg trajanja markiranja
- Kapica sa dizajnom boljeg prijanjanja za lako skladištenje u džepovima



### MALOPRODAJNA PAKOVANJA

22236  
22237



2x○ + 2x●  
1x○ + 1x● + 1x● + 1x●



### BLISTER



96956	○ Bela* <sup>o</sup>	96958	● Crvena* <sup>o</sup>
96957	● Žuta* <sup>o</sup>	96959	● Crna* <sup>o</sup>

## PRO-LINE® WP — Tečni marker za mokre površine



-46 °C → 66 °C

3 MM

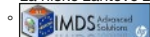


### DETAILS

96930	○ Bela*	96934	● Plava*
96931	● Žuta*	96935	● Zelena*
96932	● Crvena*	96936	● Narandžasta
96933	● Crna*	96937	● Srebrna*

- Posebno formulirana boja otporna je na prelijevanje ili širenje na vlažnim površinama, ostavljajući trajne, visoko vidljive tragove
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.
- Nizak u isparljivim organskim jedinjenjima i neće doprineti prizemnom ozonu
- Metalni bačvasti i vlaknasti vrh pružaju izdržljivost za duži životni vek

\* Označava da je ova boja markera niska u hloridima, halogenima i sumporima za niske zahteve za označavanjem korozije.



## PRO-LINE® XT — Tečna boja za grube površine i ekstremnu trajnost



### DETAILS

97250	○ Bela*	97258	○ Svetlo zelena*
97251	● Žuta*	97259	○ Svetlo plava*
97252	● Crvena*	97260	● Zlatna*
97253	● Crna*	97261	● Ružičasta*
97254	● Plava*	97262	● Ljubičasta*
97255	● Zelena*	97263	● Braon*
97256	● Narandžasta*		
97257	● Srebrna*		

PRO-LINE KST® je tečni marker dizajniran za vrhunske karakteristike markiranja na grubim, zardalim i prljavim površinama koje koriste specijalnu smolu za poboljšanu otpornost na habanje, vremenske uslove i hemikalije. Formulacija boje koja se brzo suši, brzo se veže za materijale kako bi ostavila debeli, visoko vidljiv trag i bez ksilena i drugih štetnih hemikalija da bi se smanjio rizik za zdravlje korisnika.



- Projektovan za kontinuirano i visoko vidljivo označavanje na grubim, zardalim i prljavim površinama
- Emajlirana boja za ekstremnu trajnost i povećanu otpornost na habanje, vremenske uslove i hemikalije
- Dostupan je u 14 podebljanih boja koje se brzo suše za trenutno rukovanje i smanjeno vreme zastoja
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.
- Izdržljiva metalna bačva i poklopac smanjuju lom i lako se skladište u džepu

## PRO-LINE® HT — Tečni marker za visoku otpornost na temperaturu



### DETAILS

97301	○ Bela*	97303	● Crna*
97302	● Žuta*	97305	● Plava*

PRO-LINE® HT je jedinstveni tečni marker, koji je ugrađen u vodeću tehnologiju PrismaLock™, koja se zaključava u bojama za svetle, podebljane oznake koje mogu izdržati temperature do 982 °C (1,800 °F). Koristeći specijalne pigmente i smole, ova farba sa brzim sušenjem nudi neuporedivu trajnost i čitljivost markera, pri čemu neke boje zadržavaju lako čitljive oznake do 1.204 °C (2.200 °F).



- Brzo sušeci, tečni marker za otpornost na visoke temperature
- Projektovana sa PrismaLock™ tehnologijom za dugotrajne boje do 982 °C (1,800 °F)
- Opseg obeležavanja: -46 °C do 66 °C (-50 °F do 150 °F)
- Maksimalna čitljivost obeležja (bez boje)
  - Bela - 1,148 °C (2,100 °F)
  - Žuta - 1,148 °C (2,100 °F)
  - Crna - 1,204 °C (2,200 °F)
  - Plava - 1,093 °C (2,000 °F)
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.

\* Označava da je ova boja markera niska u hloridima, halogenima i sumporima za niske zahteve za označavanjem korozije.



## CERTIFIED VALVE ACTION® — Nuklearni pre-sertifikovani tečni marker boje



Certified Valve Action® je visoko vidljivi tečni marker boje koji je prethodno sertifikovan da sadrži niske nivoe hloriga, halogena, metala niske tačke topljenja i sumpora. Svaka proizvedena serija je individualno analizirana i sertifikovana u skladu sa američkim i međunarodnim specifikacijama i vojnim specifikacijama, i sigurna je za upotrebu na nerđajućem čeliku i drugim legiranim metalima gde je otpornost na koroziju zahtevana.



### DETAILS

96880	○	Bela*
96881	●	Žuta*
96882	●	Crvena*
96883	●	Crna*

- Idealan za upotrebu na nerđajućem čeliku ili super legurama u industrijama koje zahtevaju sprečavanje korozije, lomljenje ili degradacije
- Sertifikovani u skladu sa sledećim američkim i međunarodnim specifikacijama:
  - EDF PMUC
  - MIL - STD-2041D
  - U.S. DOE RDT F-7-3T
  - U.S. Navy C3070
- Projektovan da zadovolji :
  - < 200 ppm ukupno halogena
  - < 250 ppm svaki od metala
  - < 300 ppm ukupne metale
  - niske tačke topljenja
  - < 200 ppm sumpor
- Pojedinačna analiza i sertifikacija je dostupna na [www.markal.com/certified](http://www.markal.com/certified) za brzu i tačnu referencu
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.
- Formula za brzo sušenje ostavlja tragove otpornosti na habanje, vremenske uslove i UV

## SL.250 & SL.250 PMUC — Tečni marker za nerđajući čelik



SL.250 je bezbojni marker bez mirisa i brzo sušenje tečne boje, koji ispunjava evropske nuklearne zahteve. Nizak sadržaj sumpora i nizak sadržaj hloriga omogućavaju sigurno označavanje na nerđajućem čeliku. SL.250 PMUC je jedinstveni tečni marker za nuklearne elektrane u Francuskoj. Svaki marker se može pratiti do proizvedenog broja serije na PMUC certifikatu koji je potreban i kontrolisan od strane EDF -a. Njihov nizak sadržaj sumpora i nizak sadržaj hloriga je bezbedan za upotrebu na nerđajućem čeliku, leguri i drugim super legiranim metalima gde je otpornost na koroziju zahtevana.



### DETAILS

SL.250	SL.250 PMUC		
31200129	31600129	○	Bela*
31200229	31600229	●	Žuta*
31200329	31600329	●	Crvena*
31200429	31600429	●	Plava*
31200529	-	●	Zelena*
31200629	31600629	●	Crna*

- Bezbedan za upotrebu na nerđajućem čeliku i drugim legiranim metalima gde je otpornost na koroziju zahtevana
- SL.250: Formula boje potvrđena upotrebom tipične analize koja sadrži: <200 ppm ukupno halogena 200 ppm sumpora
- SL.250 PMUC: Svaki marker se isporučuje sa brojem serije i zvaničnim certifikatom sa pošiljkom proizvoda
- Službeni PMUC certifikat: - <200 ppm ukupno halogena (kloridi, fluoridi, bromidi, jod)
  - <200 ppm sumpora
- Brzo sušenje, trajna boja za trenutno rukovanje smanjuje vreme zastoja u radu
- Srednji vrh otporan je na habanje kako bi obezbedio dugačak životni vek trajanja
- Označite otpornost na temperaturu: 100 ° C (212 ° F)

\* Označava da je ova boja markera niska u hlorigima, halogenima i sumporima za niske zahteve za označavanjem korozije.

## LOW CORROSION FINE POINT PAINT MARKER — Marker niske korozije za finu boju



**Nissen**  
by Markal

Nissen Low Corrosion Fine Point Paint Marker je napravljen tako da sadrži nizak nivo hlorida, halogena i sumpora sa oznakama trajnosti u industrijskoj klasi. Formula za nisku korozivnu boju je bezbedna za upotrebu na nerđajućem čeliku, legurama i drugim super legurama metala i neće doprineti neželjenoj koroziji, degradaciji ili pucanju.



### DETALJI

28780 ● Crna\*

- Formula boje za brzo sušenje je sigurna za upotrebu na nerđajućem čeliku i eliminiše zabrinutost u vezi sa korozijom, degradacijom ili pucanjem.
- Izdržljiv, plastični i precizni vrh za označavanje fine linije
- Tipične osobine:
  - <200 ppm hlorida i ukupnih halogena
  - <250 ppm svakog metala niske tačke topljenja
  - <250 ppm sumpora
- Boja bez ksilena smanjuje zdravstvene rizike korisnika
- Izdržljiva metalna bačva smanjuje lom

## GALVANIZER'S REMOVABLE MARKER — Izbrisivi markeri za galvanizaciju



Markal Galvanizer's Removable Paint Marker je dizajniran za proizvođače za izradu trajnih oznaka na čeliku tokom izrade. Oznake su zatim dizajnirane tako da se u potpunosti odstranjuju za galvanizaciju tokom procesa kisanja pre cinkovanja. Ovo eliminiše potrebu za bilo kakvim intenzivnim, skupim, dugotrajnim radom na dodir.



### DETAILS

28785 ○ Bela\*  
28786 ● Žuta\*

- Trajni tragovi boje tokom izrade. Oznake se potpuno uklanjaju tokom procesa konzerviranja.
- Više oznaka po markeru - više od 2 puta duže traje od vodećeg konkurenta
- Brzo sušenje i bez ksilena
- Formula otporna na vremenske uslove
- Trajne akrilne oznake na glatkim, grubim i zardalim metalnim površinama
- Pero srednjeg vrha daje precizne oznake

\* Označava da je ova boja markera niska u hloridima, halogenima i sumporima za niske zahteve za označavanjem korozije.



## VALVE ACTION® PAINT MARKER ULTRA VIOLET®

Tečni marker vidljiv pod UV svetlom

The UV-visible Valve Action® čini nevidljivu boju koja svetli plavom bojom kada se gleda sa UV ili crnim svetlom, što ga čini idealnim za bezbednost, kontrolu kvaliteta, zaštitu od neovlašćenog pristupa i protiv krivotvorenja. Stalna nevidljiva tečna boja se brzo suši kako bi obezbedila dugotrajne, otporne na vremenske uslove i otpornost na habanje.

- Čini jasne, nevidljive oznake koje svetle svetlo plavom bojom kada se gledaju sa ultraljubičastim ili crnim svetlom
- Nevidljiva formula boje je idealna za bezbednost, sprečavanje krađe i kontrolu kvaliteta
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.
- Formula za brzo sušenje smanjuje razmazivanje
- Dura -Vrh srednji vrh otporan je na habanje kako bi osigurao dug životni vek trajanja
- Izdržljiva metalna bačva i poklopac sa sponom smanjuju lom i lako se skladište u džepu

### DETALJI

97054  UV vidljivo°



 3 MM







## SL.400 — Tečni marker na bazi vode za opšte markiranje

SL.400 je vodeni, nisko-mirisni marker boje koji obeležava skoro sve tipove čistih površina. 6 neprozirnih, svetlih boja su otporne na vremenske i UV-zrake za odličnu identifikaciju oznaka.

- SL.400 je vodeni, nisko-mirisni marker boje koji obeležava skoro sve tipove čistih površina. 6 neprozirnih, svetlih boja su otporne na vremenske i UV-zrake za odličnu identifikaciju oznaka.
- 6 živopisnih boja za odličnu identifikaciju oznaka, kontrolu kvaliteta i pregled delova na čistim površinama
- Tip koji aktivira ventil oslobađa boju na zahtev za glatko, kontinuirano korišćenje
- Srednji metak otporan je na habanje kako bi obezbedio dugačak životni vek trajanja
- Označite otpornost na temperaturu: do 80 °C (176 °F).

### DETALJI

31200137  Bela°  
 31200237  Žuta°  
 31200337  Crvena°  
 31200437  Plava°  
 31200537  Zelena°  
 31200637  Crna°



 3 MM





## PRO-LINE® FINE & PRO-LINE® MICRO — Tečni markeri za markiranje fine linije

PRO-LINE® Fine i Micro tečni markeri kombinuju trajnost boje sa preciznošću označavanja finih, ventilom aktiviranih vrhova. Prilikom označavanja na malim površinama ili kada su potrebne lako čitljive oznake, male veličine vrhova pružaju veoma vidljive, oštre linije za veću identifikaciju markera.

- Dostupan u finim i mikro veličinama za precizno i trajno obeležavanje boje
- Nudi se u 2 veličine: fino 1,5 mm (1/16") i mikro 0,8 mm (1/32")
- Visoka čvrstoća, lagana cev dizajnirana za industrijsku upotrebu
- Samozatvarajuća kapica sa štipaljkom štiti vrh za duži život i lako se skladišti u džepu
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.



## PRO-MAX® — Extra-large liquid paint marker

PRO -MAKS® je tečni marker sa izuzetno velikim vrhom koji obezbeđuje najveće i najvidljivije tragove. Boja otporna na habanje, vodu i nečistoću brzo se suši da ostavi jasne oznake koje se lako čitaju i sigurna je za gotovo svaku površinu.

- Izuzetno veliki vrh idealan za označavanje ili sigurnosno označavanje gde je potrebna hitna identifikacija
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.
- Tip koji aktivira ventil oslobađa bojuna zahtev za glatku, kontinuiranu upotrebu
- Izdržljiva cev otporna na lom i samozadržavajući poklopac dobro pristaje na kraj kada nije u upotrebi



## POCKET PAINT MARKER Indelible Pocket paint marker with Reversible Nibs (chisel/flat bullet point)

Markal Pocket je bezbojni marker za brzo sušenje, bez mirisa, u džepnoj veličini koji pruža dugotrajne tragove za gotovo svaku površinu. Njen reverzibilni vrh (dleto ili pljosnati vrh) nudi varijacije veličina markiranja. Ploča sa ravnim metkom je projektovana za lako i vidljivo označavanje tačaka.

- 6 boja za visoku vidljivost, odličnu identifikaciju oznaka, kontrolu kvaliteta i kontrolu delova
- Brzo sušec a, neizbrisiva trajna boja za trenutno rukovanje smanjuje vreme rada
- Boja bez ksilena smanjuje zdravstvene rizike korisnika
- Snažan reverzibilni vrh otporan je na habanje kako bi se obezbedio dugi vek trajanja
- Vrh može biti dleto za široke tanke tragove, ili ravan vrh za točkasto označavanje
- Veličina obeležavanja: dleto (10mm ili 3mm), ravan-metak (10mm tačka)
- Praktičan džepni marker: 11,7cm dužine x 2,5cm u prečniku

### DETALJI

#### FINO MIKRO

96871	96888	○
96872	96889	●
96873	96890	●
96874	96891	●
96875	-	●
96876	-	●
96877	-	●
96878	-	●

MIKRO  
0,8 MM

FINO  
1,5 MM



### DETALJI

90900	○	Bela
90901	●	Žuta
90902	●	Crvena
90903	●	Crna
90904	●	Narandžasta
90905	●	Plava
90906	●	Zelena

<5-14> MM



### DETALJI

97500	○	Bela
97501	●	Žuta
97502	●	Crvena
97503	●	Crna
97505	●	Plava
97504	●	Zelena

#### DLETO

10 MM

3 MM

RAVAN VRH  
10 MM



NEW  
PRODUCTS

## JUMBO FELTIP PAINT MARKER — Tečni marker sa ekstra većim vrhom

Jumbo Feltip marker koristi sjajnu boju visokog sjaja i izuzetno veliki vrh za velike oznake koje se lako čitaju. Sjajna, brzo sušuća boja je lako vidljiva i čini otpornu na habanje, vremenske uslove i UV zračenje na gotovo svakoj površini.

- Džambo vrh za široke i lako vidljive tragove
- Brzo -sušuća emajlirana boja je otporna na habanje, vremenske uslove i UV za dugotrajnost
- Dostupan u četiri svetle, lako vidljive boje za poboljšanu identifikaciju markica, kontrolu kvaliteta i kontrolu delova

*Nissen*  
by Markal

8 MM

## DETALJI

- 28790 ○ Bela  
28791 ● Žuta  
28793 ● Crna  
28792 ● Crvena

NEW  
PRODUCTS

## SUPER FINE METAL MARKER - Čelični marker za označavanje finom linijom

Super fini marker za metale, koji se ne začepkuje, od nerđajućeg čelika, olakšava precizno obeležavanje i ima trajnost da izdrži tvrde, grube i prljave površine. Industrijska boja je dostupna u pet svetlih, lako vidljivih boja i tragova na gotovo svakoj površini. Kontrolišite količinu boje tako što ćete stisnuti fleksibilnu bačvu, a možete je nositi u džepu ili kutiji za alat bez curenja ili prosipanja.

- Izuzetno fini vrh od nerđajućeg čelika neće se začepiti za precizno, trajno obeležavanje boje
- Visoka čvrstoća, fleksibilna cev za potpunu kontrolu nad količinom boje za pisanje
- Dostupan u pet sjajnih boja koje se lako vide za poboljšanu identifikaciju oznaka, kontrolu kvaliteta i kontrolu delova
- Brzo sušenje, trajna boja za trenutno rukovanje smanjuje vreme zastoja u radu
- Tragovi vrhova od nerđajućeg čelika na zardalim, grubim ili suvim površinama
- Vreme sušenja: 1 do 2 minuta

*Nissen*  
by Markal

## DETAILS

- 28840 ○ Bela  
28841 ● Žuta  
28842 ● Crvena  
28843 ● Crna  
28844 ● Narandžasta Fluo  
28845 ○ Bela (pak. od 1)  
28846 ● Žuta (pak. od 1)



## SL.130 — Izbrisiv tečni marker za privremeno označavanje



SL.130 je tečna boja na bazi krejona koja lako briše vodu sa bilo koje glatke, neporozne površine bez ostavljanja tragova kada se oznaka ukloni.



### DETAILS

31200126	○	Bela	31201826	Ⓕ	Zelena Fluo
31200326	●	Crvena	31201926	Ⓖ	Ružičasta Fluo
31200626	●	Crna	31202026	Ⓕ	Narandžasta Fluo
31200426	●	Plava	31200226	Ⓕ	Žuta Fluo
31200526	●	Zelena			

- Oznake se lako mogu obrisati vodom, bez ostavljanja tragova
- 9 sjajnih boja, uključujući 4 fluorescentnih, odlične su za privremenu identifikaciju oznaka, kontrolu kvaliteta i kontrolu delova
- Srednji vrh otporan je na habanje kako bi obezbedio dugačak životni vek trajanja
- Ventil oslobađa boju na zahtev za glatku, kontinuiranu upotrebu
- Označite otpornost na temperaturu: 80 ° C (176 ° F)

## PRO-WASH® — Izbrisivi tečni marker



PRO-VASH® V i D su uklonjivi tečni markeri boje koji se brzo suše i mogu se brzo i lako isprati sa svih neporoznih površina bez ostavljanja tragova. Jedinstvene boje čine visoko vidljive i trajne oznake sve dok se ne zahteva uklanjanje, čineći PRO-VASH® idealnim za kontrolu kvaliteta, montažne operacije i identifikaciju defekata.



### DETALJI

PRO-WASH® W	PRO-WASH® D		
97030	97010	○	Bela
97031	97011	●	Žuta
97032	97012	●	Crvena
97033	97013	●	Crna
97035	97015	●	Plava
97036	97016	●	Zelena

- Boja koja se brzo suši i lako uklanja ostavljajući površine bez mrlja ili ostataka boje
- PRO-VASH® V oznake se mogu jednostavno i brzo ukloniti vodom
- PRO-VASH® D oznake se mogu ukloniti deterdženatom koji imaju pH vrednost od 10 ili više
- Boja bez ksilena smanjuje zdravstvene rizike korisnika i zakonskim uredbama Kalifornija 65, EPA HAPS i SARA 313 u SAD.
- Visoka čvrstoća, plastična bačva male težine dizajnirana za industrijsku upotrebu

# KUGLIČNI MARKERI

## SVETLI, PRECIZNI I STALNI

Preko 40 godina, Markal® je na svojoj francuskoj lokaciji proizveo najkvalitetniji marker u tubi. Sa svojim čeličnim kugličnim vrhom pritisnutim na aluminijumskoj cevi za teške uslov primene, te debelom i svetlom bojom, ove oznake su pogodne za većinu industrijskih primena. On će biti vaš omiljeni marker, gde se mora napraviti jasna i precizna oznaka na gruboj, mokroj ili masnoj površini sa dugotrajnom, UV i vodootpornom bojom.

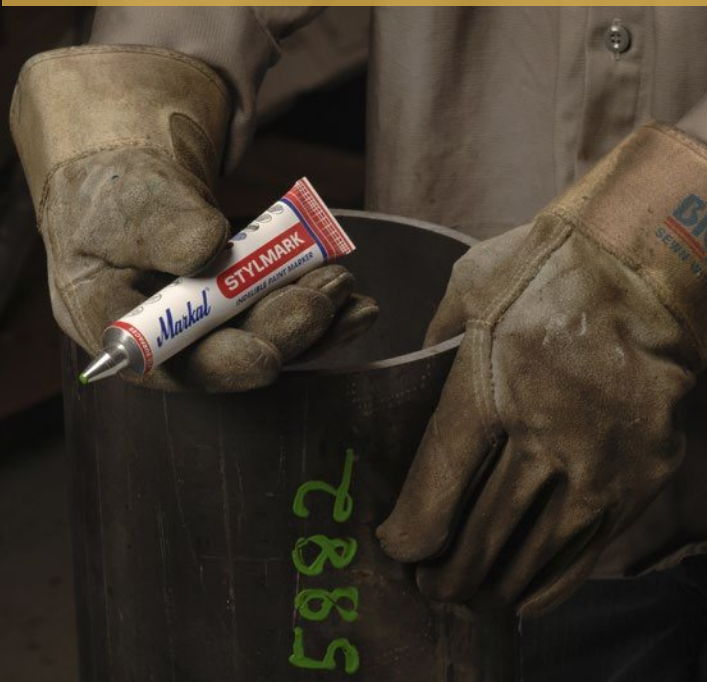


	STYLMARK®	SECURITY CHECK PAINT MARKER	ST 2100 & PMUC	SOLID BARREL METAL MARKER	HT 1000	BALL PAINT MARKER
<b>METALI</b>						
ČISTO, SUVO	○	○	○	○		○
GRUBO	○	○	○	○		○
RĐAVO	○	○	○	○		○
MASNO	○	○	○	○		○
MOKRO	○	○	○	○		○
NISKA KOROZIJA			○			
NUKLEARNA I VOJNA SPECIFIKACIJA			○			
PREKALJIVANJE, TOPLOTNA OBRADA				○		
<b>PLASTIKE</b>						
ČISTO, SUVO	○	○	○	○		○
GRUBO	○	○	○	○		○
MASNO	○	○	○	○		○
MOKRO	○	○	○	○		○
<b>GUMA</b>						
ČISTO, SUVO	○	○	○	○		○
GRUBO	○	○	○	○		○
MASNO	○	○	○	○		○
MOKRO	○	○	○	○		○
<b>STAKLO, KERAMIKA</b>						
ČISTO, SUVO	○	○	○	○		○
GRUBO	○	○	○	○		○
MOKRO	○	○	○	○		○
<b>CIGLA, KAMEN</b>						
ČISTO, SUVO	○	○	○	○		○
GRUBO	○	○	○	○		○
POLIRANO I MOKRO (NPR. MERMER)					○	
<b>TEKSTILI</b>						
UMOTAVATI PRE NANOŠENJA					○	

○ Preferencije ○ Drugi izbori

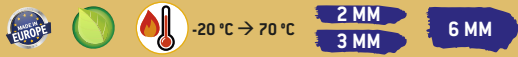
## PRONAĐITE SVOJ MARKER

# STYLMARK — Kuglični marker za više površina



Markal® Stylmark® je marker sa metalnom kuglicom za označavanje većine površina. Aluminijumska cev za istiskivanje i debela boja čine ga pogodnim za grube, vertikalne i nadzemne površine sa odličnom adhezijom na masnim i vlažnim površinama. Boja bez ksilena smanjuje zdravstvene rizike korisnika.

- Trajni čelični kuglični vrh sa neizbrisivom bojom na glatkim ili grubim površinama
- Kuglični vrh je otporan na vrlo grube površine za dugi vek trajanja
- Dostupan je u 3 veličine: 2mm, 3mm i 6mm za različite debljine markera
- 11 podebljanih, svetlih boja koje su otporne na vremenske uslove, vodu i UV-zrake
- Jedinstvena boja dizajnirana da ne kaplje na vertikalnim površinama
- Označite otpornost na temperaturu: 200 ° C (392 ° F)



## DETALJI

2MM	3 MM	6MM	
96640	96652	96664	22203
96641	96653	96665	22201
96642	96654	96689	22200
96644	96657	96682	22204
96645	96658	96683	22202
96643	96655	96667	22205
96646	96656	96684	22206
96649	96660	96687	22207
96650	96662	96688	22208
96648	96659	96686	22209
96647	96661	96685	22210

## MALOPRODAJNO PAKOVANJE (2 U PAK.)



- Bela °
- Žuta °
- Crvena °
- Plava °
- Zelena °
- Crna °
- Narandžasta °
- Ljubičasta °
- Siva °
- Ružičasta °
- Braon °



199014 Stylmark prikaz (5○+5●+2●)



Od 1. januara 2019. godine La-Co Industries Europe nudi rešenja za ambalažu koja su ekološki prihvatljivija. Zamenom našeg poliesterskog pakovanja od kugličnih markera sa kartonskim pakovanjem, odlučili smo ponuditi rešenje koje je i praktičnije i daje više dodatnih vrednosti našim kupcima.



## ST.2100 & ST.2100 PMUC — Kuglični markeri u tubi za nerđajući čelik



### DETALJI

2MM	3MM / 3MM PMUC	6MM		
97150	97160 / 97360	97170	○	Bela
97151	97161 / 97361	97171	●	Žuta
97152	97162 / 97362	97172	●	Crvena
97154	97164 / 97363	97174	●	Plava
97155	97165 / -	97175	●	Zelena
97153	97163 / 97364	97173	●	Crna



Markal® ST.2100 je marker sa metalnom kuglom koji zadovoljava evropske zahteve za nuklearnom energijom. Nizak sadržaj sumpora i nizak stepen zagrevanja omogućavaju sigurno označavanje na nerđajućem čeliku. Aluminijska cev za ceđenje i debela boja čine je prikladnom za vertikalne i nadzemne površine.



- Bezbedan za upotrebu na nerđajućem čeliku i drugim legiranim metalima gde je otpornost na koroziju zahtevana
- Formula boje potvrđena tipičnom analizom koja sadrži:
  - <200 ppm ukupnih halogena
  - <200 ppm sumpora
- Boje niskog sadržaja sumpora i niskih hlorida su otporne na vremenske uslove, vodu i UV-zrake
- Jedinstvena boja dizajnirana da ne kaplje na vertikalnim površinama
- Označajna otpornost na temperaturu: 200 °C (392 °F)

## HT.1000 — Kuglični marker u tubi za kaljenje i termičku obradu



### DETALJI

3MM	6MM		
96700	96702	○	Bela
96701	96703	●	Žuta



Markal® HT.1000 je marker sa metalnom kuglicom koji je idealan za operacije kaljenja i toplotne obrade. Označavajte na temperaturi okoline, a boja visokih performansi može izdržati temperature do 1000 °C. Aluminijska cev za istiskivanje i debela boja čine ga pogodnim za grube, vertikalne i nadzemne površine sa odličnim prijanjanjem na masnu i vlažnu površinu.



- Visokotemperaturne boje su idealne za zavarivanje, poluge, odlivke, kovane i druge kaljene delove
- Boja izdržava temperature do 1000 °C
- Trajni tragovi boje neće se izbrisati, što će omogućiti dugotrajnu identifikaciju
- Izdržljiva čelična kugla sa neizbrisivom bojom na grubim ili glatkim površinama
- Dostupan je u 2 veličine: 3 mm i 6 mm za različite debljine oznaka
- Boja visokih performansi dizajnirana da ne kaplje na vertikalnim površinama

# SECURITY CHECK PAINT MARKER — Marker za obrtni moment



**PLASTIČNI VRH:**  
Dizajniran da obezbedi mogućnost različitih veličina markiranja. On takođe povećava preciznost obeležavanja jednostavnim zavrtanjem mlaznice na glavu markera. Zahvaljujući svojoj dužini (5cm), glava markera je produžena za 3 cm, što omogućava lak pristup na teško dostupnim područjima.



Marker za proveru bezbednosti obezbeđuje praktičnu vizuelnu metodu za identifikaciju vibracionog otpuštanja ili petljanja u maticama, vijcima, pričvršćivačima i sklopovima. Oznaka boje visoke vidljivosti postaje tvrdi pečat koji se lako lomi. Idealan za kontrolu kvaliteta i garantni rad. Siguran na većini površina, savršeno prijanja na metal. Bezbedan za korisnika, ne sadrži ksilen.

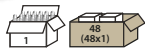
- Visoko vizuelna boja za brzu i laku vizuelnu proveru: sigurnosni indikator ili sigurnosni pečat na sklopovima koji olakšavaju otkrivanje bilo kakvog slučajnog ili zlonamernog pomaka
- Boja bez teških metala za sigurnu upotrebu na metalu i za korisnika
- Efikasna zapremina je bolja u poređenju sa drugim proizvodima na tržištu (50 ml boje) za duži period upotrebe i smanjeno vreme zastoja u radu
- Oznaka temperaturne otpornosti: 200 ° C (392 ° F)



## MALOPRODAJNO PAKOVANJE (2 PO PAK.)

### DETALJI

- 96668 ○
- 96669 ●
- 96670 ●
- 96671 ●
- 96672 ●
- 96673 ●
- 96674 ●
- 96675 ●



- 22214
- 22212
- 22211
- 22215
- 22213
- 22216
- 22217
- 22218

- Bela °
- Žuta °
- Crvena °
- Plava °
- Zelena °
- Crna °
- Narandžasta °
- Ljubičasta °



- 96676
- 199013

Plastični vrhovi (pak. od 12)  
Security Check Paint  
Marker Prikaz  
(3○+3●+2●+  
1●+1●+1●+1●)



## SOLID BARREL METAL MARKER — Marker tečne boje pod pritiskom sa metalnim vrhom



### DETAILS

- 28710 ○ Bela
- 28711 ○ Žuta
- 28712 ○ Crvena
- 28713 ○ Crna
- 28714 ○ Plava
- 28715 ○ Zelena

- Jedinstveni mehanizam pumpe za glatki protok boje
- Dostupan u šest svetlih boja koje se lako vide za poboljšanje identifikacije markera, kontrolu kvaliteta i kontrolu delova
- Idealan za označavanje na teškim površinama; tvrda, gruba, zardala i prljava
- Metalni bačvasti i čelični vrh pružaju izdržljivost za duži životni vek
- Boje otporne na vremenske uslove, habanje i UV za dugotrajnu oznaku

## BALL PAINT MARKER® — Kuglični marker za više površina



### DETALJI

- 84620 ○ Bela\*
- 84621 ○ Žuta\*
- 84622 ○ Crvena\*
- 84623 ○ Crna\*

### PAK. OD 1



- 84600 ○ Bela
- 84601 ○ Žuta

Markal Ball Paint Marker je marker sa tečnom bojom pomoću dugotrajnog metal-loptastog vrha za pisanje na tvrde površine. Idealno za identifikaciju proizvedenog čelika i drugih grubih površina koje se čuvaju u teškim uslovima, bočice za stisnute boce boje u debeloj ili tankoj liniji za dugotrajne tragove.

- Izdržljivi vrh metalne kugle otporan je na habanje i začepljenje za dugotrajni život na grubim površinama
- Formulacija boje bez kapanja omogućava lako označavanje mesta rada
- Industrijska boja otporna je na teške uslove i vremenske uslove
- Čvrsta plastična boca sa čeličnim vrhom od 3 mm (1/8 ")
- Plastična kapica čuva vrh između radnih mesta
- Za primene sa niskom korozijom (niski hloridi / halogeni)

\* Označava da je ova boja markera niska u hloridima, halogenima i sumporima za niske zahteve označavanja korozije.



## B® PAINTSTIK® — Bojica višenamenske trajne čvrste boje



### DETAILS

80220	○ White*	80227	● Pink
80221	● Yellow	80228	● Purple
80222	● Red	80229	● Brown
80223	● Black	80230	● Grey
80224	● Orange	80231	● Gold
80225	● Blue		
80226	● Green		

### RETAIL PACKS

22253	3x○
22254	1x● + 1x● + 1x●
22255	1x● + 1x● + 1x●
22256	1x● + 1x● + 1x●



- Real paint for long-lasting, highly visible marks
- Superior marking on rough, rusty, or dirty surfaces
- Solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity
- Easy-to-hold, recyclable paperboard holder protects Paintstik® for maximum use
- Weather- and UV-resistant for long-lasting marks

\*Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.

### B-3/8 9,5 MM

80420	○ White	80421	● Yellow
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### B-HEX 12,7 MM

80250	○ White	80251	● Yellow
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199012

B® Paintstik® display:  
12x○ + 6x● + 2x● +  
2x● + 2x● + 1x●

## B-E® PAINTSTIK® — For marking very rough surfaces



### DETAILS

80620	○ White	80622	● Red
80621	● Yellow	80623	● Black

- Soft solid paint for easier marking on rough or colder surfaces
- Marks withstand prolonged immersion in water for long mark life
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use
- Weather- and UV-resistant

## F® PAINTSTIK® — Solid paint crayon in fluorescent colors



A solid paint crayon that contains bold, fluorescent colors to create high-visibility marks. The F® Paintstik® is ideal for instant identification especially in low light conditions.



### DETAILS

82831		Yellow Fluo	82835		Blue Fluo
82832		Red Fluo	82836		Green Fluo
82834		Orange Fluo	82842		Pink Fluo

- Vibrant colors for improved visibility
- Fluorescent marks glow under UV or black light
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use

## M® & M-10® PAINTSTIK® — Solid paint crayon for annealing and heat-treating



Ideal for annealing and heat-treating operations, the M® and M-10® Paintstiks mark at room temperature and withstand temperatures up to 982°C (1800°F).



### DETAILS

<b>M®</b>		<b>M-10®</b>			
81920		White	82020		White
81921		Yellow			
81922		Red			
81923		Black			

- Marks will withstand immediate quenching in water or oil
- Ideal for welds, ingots, castings, forgings, and other annealed parts
- M® Paintstik® withstands 871°C (1600°F)
- M-10® Paintstik® withstands 982°C (1800°F)
- Durable marks will not rub off, allowing for long-lasting identification



**N® PAINTSTIK® —**  
**Marks will not show through top coat of paint or primer**

This specialized solid paint crayon formula leaves marks that will not show through the finishing coat of paint or top coat of primer, eliminating the cost and time of mark removal.

- Marks will not show through top coat of primer or finished layer of paint
- Ideal for ship building or other metal fabrication
- Solid paint formula designed for marking on wet, dry, oily, rusty, icy, smooth, or rough surfaces
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use

DETAILS  
 82120 ○ White

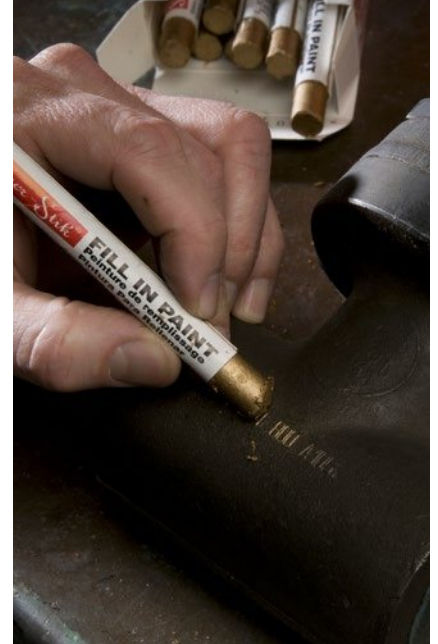


**P® PAINTSTIK® —**  
**Marks are removed in the galvanizing process**

The P® Paintstik® is designed for use in pickling baths or galvanizing operations. The marks completely remove and will not interfere with the zinc coating.

- Marks remove in pickling baths to allow excellent adhesion for zinc coating
- Superior marking on rough, rusty, oily, or smooth surfaces compared to liquid paint markers
- Solid paint crayon makes wide, bold marks for instant identification
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use

DETAILS  
 83420 ○ White



**LACQUER-STIK® —**  
**Solid paint crayon for fill-in stamped or engraved lines**

Lacquer-Stik is a specially formulated solid paint crayon designed to color-brighten stamped or engraved lines and lettering

- Highlighter, fill-in paint provides bold, bright colors for even the smallest engravings
- Rubs in and wipes off easily, dries quickly
- Paint stays flexible, expands and contracts with the surface, for long-lasting color
- No mess or waste, eliminates dripping paint
- Mark temperature resistance: up to 260°C (500°F)
- Meets U.S.A. federal specification TT-F-325a I and MIL-STD 171, Finish No. 30.1.1, Type I

DETAILS  
 51120 ○ White  
 51121 ● Yellow  
 51122 ● Red  
 51123 ● Black  
 51131 ● Gold



**READ ABOUT OUR ENGRAVERS P-57**

## WS-3/8® PAINTSTIK® — Water-soluble, removable solid paint crayon



The smooth-writing WS-3/8 Paintstik® is a removable solid paint crayon. The fine line marks are easily wiped away with water and will not ghost on non-porous surfaces.

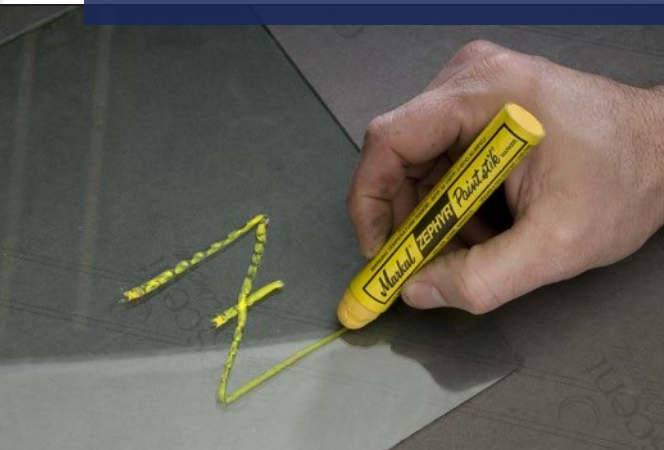


### DETAILS

- |       |          |       |         |
|-------|----------|-------|---------|
| 82420 | ○ White  | 82422 | ● Red   |
| 82421 | ● Yellow | 82423 | ● Black |

- Water soluble for easy removal before production or finishing
- Smaller diameter for finer line marking
- Ideal for temporary marking on non-porous surfaces
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use

## ZEPHYR® PAINTSTIK® — Wear-resistant, water-soluble solid paint crayon



Ideal for temporary marking of glass and other non-porous surfaces, Zephyr® solid paint crayon is wear-resistant for durable marking and can be wiped off with water.



### DETAILS

- |       |          |
|-------|----------|
| 51321 | ● Yellow |
|-------|----------|

- Water soluble for easy removal from glass and other non-porous surfaces
- Wider, more wear-resistant marks than WS-3/8®
- Marks will not damage surface or ghost after removal
- Easy-to-hold, recyclable paperboard holder protects Paintstik® for maximum use

# QUIK STIK® & QUIK STIK® MINI — Fast-drying solid paint in twist-up holder



VOC



-18 °C → 200 °C

QUIK STIK®

17 MM

QUIK STIK® MINI

6 MM



## DETAILS



QUIK STIK®	QUIK STIK® MINI		QUIK STIK®	QUIK STIK® MINI	
61051	61126	○	61071	-	●
61053	61127	●	61073	-	●
61049	61128	●	61041	-	F
61050	61129	●	61043	-	F
61070	-	●	61044	-	F
61069	-	●	61042	-	F

## PACK FLUO

61045 1x F + 1x F + 1x F + 1x F

## RETAIL PACKS

22238 2x ○ + 1x ● + 1x ● + 1x ●



- Fast-drying, vibrant paint marks dry in 5 to 7 minutes
- 20% more paint than other brands, more marks for the money
- Marks on virtually any surface: wet, smooth, rough, or hot
- Airtight, self-storing cap keeps the marker clean and fresh between uses
- Weather- and UV-resistant paint for long-lasting mark
- Solid paint marker advances and retracts by turning twist-up knob

## DISPLAY : QUIK STIK®

199004 10 ○ + 8 ● +  
2 ● + 2 ● +  
2 ● + 1 ●

## QUIK STIK® MINI

199003 12 ○ + 12 ● +  
10 ● + 10 ●



# SOLID PAINT MARKER (STANDARD AND LOW CORROSION)

— Solid paint in durable holder



-46 °C → 66 °C

6 MM

## DETAILS

STANDARD	LOW CORROSION		
28770	28760	○	White
28771	28761	●	Yellow
28772	28762	●	Red
28773	28763	●	Black
28774	-	●	Blue
28775	-	●	Green
28776	-	F	Yellow fluo



- Industrial-strength paint dries quickly for long-lasting, permanent marks
- Solid paint marker easily advances for paint on demand
- Marks on virtually any surface: wet, smooth, or rough
- Airtight, self-storing cap keeps the marker clean and fresh between uses
- Available in seven bright, easy-to-see colors
- Weather- and UV-resistant paint for long-lasting mark
- Cured marks will withstand temperatures in excess of 500 °F (250 °C)
- Dry Time: 1 minute
- LOW CORROSION, properties :
  - 200 ppm chlorides and total halogens
  - 250 ppm each low melting point metals
  - 250 ppm sulfur

# SOLID PAINT MARKERS - HOT SURFACES

## EXTREME TEMPERATURES

The tools required in a smelter or forge and casting foundries must be able to consistently perform and be able to withstand extreme temperatures, and industrial markers are no exception. Our hot surface line of solid paint markers will only begin producing marks when in the stated working temperature, and will provide long-lasting, highly-visible marks that will not run, char, flow, discolor, peel, or crack. With rated temperatures, from 49°C (120 ° F) to 1204°C (2200 ° F) these markers are ideal for use on coils, billets, bars, lingots, and plates.



**H® PAINTSTIK®**  
Hot surface marker



**HT® PAINTSTIK®**  
Red-hot surface marker



**HT-34® PAINTSTIK®**  
Red-hot surface marker



**HT-40® PAINTSTIK®**  
King size red-hot surface marker



**REAL PAINT FOR HIGHLY VISIBLE & RESISTANT MARKS**

Ideal for marking coils, billets, plates, castings and forgings, Markal®'s Solid Paint Markers for hot surfaces provide long-lasting marks which will not run, char, discolor, peel, or crack.

The industry original, Markal® H® Paintstik® hot surface solid paint marker is a high temperature metal marker used in steel mills to mark on hot surfaces (107°C to 593°C)

- Forgings and parts can be immediately dipped into cold water baths without damaging the marks
- Can be removed in pickling baths

Designed for marking red-hot surfaces (204°C to 871°C), the HT® Paintstik® hot surface solid paint marker withstands the rigors of steel production. Available in 6 bold colors, the durable weather- and fade-resistant marks will not run, char, flow, discolor, peel or crack.

- Lasts longer, up to 6X the writing life of competitive hot chalk
- Fast-drying marks are not damaged during handling or when immersed in cold water baths

HT-34 Paintstik hot surface solid paint marker writes on red-hot steel surfaces (204°C to 982°C). Long-lasting, weather- and fade-resistant paint provides bright, identifiable white marks in steel production.

- Lasts longer than competitive hot chalk, for extended writing life
- Fast-drying marks are not damaged during handling or when immersed in cold water baths

HT-40 Paintstik hot surface solid paint crayons mark easily on red-hot surfaces (177°C to 927°C). The extra-wide paint marker is easy to hold, even with gloves.

- Extra-wide hot surface marker lasts longer than competitive hot chalk, for extended writing life
- Durable marks will not run, char, flow, discolor, peel or crack
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use

**DETAILS**

- 81020 ○ White
- 81021 ● Yellow
- 81022 ● Red
- 81023 ● Black
- 81025 ● Blue
- 81026 ● Green

9,5 MM

**DETAILS**

- KING SIZE**  
19 MM
- 81210 ○ White
- 9,5 MM**
- 81220 ○ White
  - 81221 ● Yellow
  - 81222 ● Red
  - 81223 ● Black
  - 81225 ● Blue
  - 81226 ● Green

**DETAILS**

- KING SIZE**  
19 MM
- 84710 ○ White
- 9,5 MM**
- 84720 ○ White

**DETAILS**

- 81610 ○ White

**KING SIZE**  
19 MM



## HT-75® PAINTSTIK® — White-hot surface marker



93 °C → 538 °C  
200 °F → 1000 °F



19 MM



A permanent, hot surface marker, HT-75 Paintstik solid paint crayon marks on a variety of hot surfaces such as aluminum, steel, and hot rubber. The multi-purpose solid paint marker provides superior weather- and fade-resistance and features an extra-wide design for highly visible marks.

- Extra-wide hot surface marker lasts longer than competitive hot chalk for extended writing life
- Fast-drying marks are not damaged during handling or when immersed in cold water baths
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use
- Real paint for long-lasting, highly visible marks

### DETAILS

84820  White

## K® PAINTSTIK® — White-hot surface marker



982 °C → 1204 °C  
1800 °F → 2100 °F



19 MM



K® Paintstik® hot surface solid paint crayons are ideal for use when marking extremely hot steel. The marks will not burn off and remain readable and highly visible in all weather conditions.

- White-hot surface paint crayon writes on iron, steel castings, ingots, forgings, blooms, billets and high temperature metal alloys.
- Extra-wide hot surface marker lasts longer than competitive hot chalk, for extended writing life
- Marks are readable even on white-hot steel for instant identification

### DETAILS

81820  White

## X-5® PAINTSTIK® — Dual-purpose marker for hot or cold surfaces



66 °C → 482 °C  
150 °F → 900 °F



9,5 MM



The X-5 solid paint marker is recommended where marking temperatures vary rapidly (66°C to 482°C). This hot surface paint crayon is ideal for very rough surfaces such as open-hearth ingots, forging, hot slabs, and other metals.

- Dual-purpose paint crayon is ideal for use where temperatures vary rapidly from hot to cold
- Unique marker is ideal for very rough surfaces like open-hearth ingots, forgings, and rough castings
- Formulated for foundries and mills where extreme temperature change occurs
- Durable marks will not run, char, flow, discolor, peel or crack, but can be removed at higher temperatures

### DETAILS

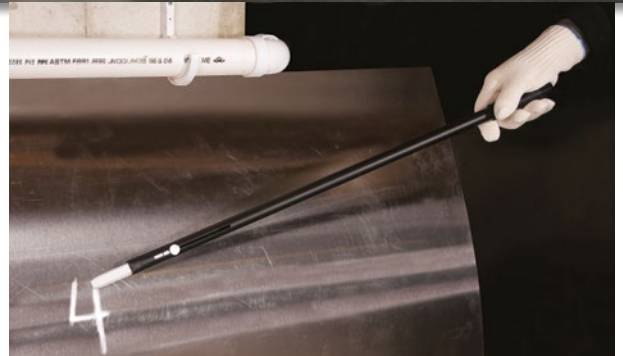
82520  White

# HOLDERS

## ENHANCE DURABILITY AND COMFORT

Markal® holders protect your solid paint crayons, paintstiks, lumber and scanning crayons.

HOLDERS FOR  
PAINT STIK®



### HOLDER 100 — Wooden holder for hot surface paint crayons

The easy-to-use #100 wooden holder helps prevent breakage and makes the hot surface solid paint crayons easy to hold during use.

- Durable wooden holder protects the marker during use for long marking life
- Adjustable metal ring secures marker in holder
- Designed for use with the following Markal® hot surface solid paint markers: H®, HT®, HT-34®, HT-40®, X-5®



DETAILS  
85500

LENGTH  
10,2cm (4")

### HOLDER 102 — Adjustable metal holder for solid paint crayon

The #102 metal holder protects solid paint crayons, reduces hand fatigue and keeps workspace clean. Easy-to-advance, adjustable holder maximizes marker life.

- Durable metal holder promotes long work-life for all standard 1.7 cm (11/16") size Markal solid paint crayons.
- Adjustable mechanism easily advances paint crayon
- Designed for use with the following Markal standard size solid paint crayons: B®, B-E®, B-L®, BL-W®, F®, M®, M-10®, N®, P®
- For safer distance marking, 0.6 m (24") and 0.9 m (36") extensions are available for special order



Marker not included

DETAILS  
85100

LENGTH  
15,2cm (6")



## HOLDER 107

Metal holder for small diameter solid paint crayons

This durable metal holder is built for ease of marking and protects small diameter solid paint markers from breakage. Its push-button design makes for easy, single-hand use on the jobsite.

- Dependable holder protects fine size Markal® Paintstiks® for long work life
- Easy-to-use, push-button design reduces work downtime
- For safe distance marking, 0.6 m (24") and 0.9 m (36") extensions are available for special order
- Designed for use with the following Markal® solid paint markers: B-3/8 and WS-3/8®



Marker not included

**DETAILS**  
85300

**LENGTH**  
14 cm (5,5")



## HOLDER 108

Metal holder for hex-shaped industrial markers

This specially-designed holder and leather wrist strap reduces hand fatigue and protects hex-shaped Markal® markers on the jobsite.

- Heavy-duty metal holder helps prevent breakage, reducing costs
- Push-button advancing reduces downtime for increased productivity
- Comfortable leather wrist strap helps prevent dropping
- Designed for use with all 1.3 cm (1/2") Markal hex-shaped markers: Lumber crayons #200, #500, Pro-EX®, and Tyre Marque®
- For safe distance marking, 0.6 m (24") and 0.9 m (36") extensions are available for special order



Marker not included

**DETAILS**  
85400

**LENGTH**  
15,2 cm (6")



## HOLDER 111

Extra-long metal holder for hot surface paint crayons

The extra-long design and reliable metal holder aides hot surface marking from safer distances.

- The longest metal holder for hot surface marking
- Durable, push-button metal holder is easy to use, even with heavy-duty gloves
- Designed for use with the following Markal® hot surface solid paint markers: H®, HT®, HT-34®, HT-40®, X-5®
- For safe distance marking, 0.6 m (24") and 0.9 m (36") extensions are available for special order



Marker not included

**DETAILS**  
85700

**LENGTH**  
28 cm (11")



## FM.001

Push-button holder for FM.120

Durable aluminum holder helps prevent breakage and offers a comfortable grip during marker use.

- Metal teeth of holder firmly grip the crayon to secure marker during use
- Push-button design allows for easy advancing and retracting of the crayon
- Designed for use with the Markal FM.120 crayon



Marker not included

**DETAILS**  
44009999

**LENGTH**  
11,4 cm (4,4")

# WELDING MARKERS

## LONG-LASTING AND VISIBLE

The first step to creating a durable, long-lasting weld is using the best tools available to meet the level of precision required during the process. Markal® offers the best in economical and specialized welding markers to produce longer-lasting and more visible marks guaranteed to not contaminate or cause inclusions, pitting, or porosity in the weld. The temporary range of welding markers includes Welders Pencils, soapstone, and other high-visibility layout markers.

# SILVER-STREAK® & RED-RITER® WELDERS PENCILS — Welders pencils for metal layout and fabrication



## DETAILS

- 96100 ● Red-Riter®  
96101 ● Silver-Streak®

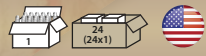
## RETAIL PACKS

- 22220 3x ● Silver-Streak®  
22219 2x ● Silver-Streak® +  
1x ● Red-Riter®



- Reflective lead illuminates when cutting or welding for improved visibility
- The soapstone alternative: marks resist torch flames; will not rub, burn or blow off.
- Durable marks will not scratch or abrade metal surfaces
- Available in two highly visible colors: red for aluminum or other bright metals, silver for darker surfaces
- High-strength, hex-shaped pencil reduces barrel roll unlike competitive brands
- Pre-sharpened pencils can be easily resharpened with any standard pencil sharpener

# SILVER-STREAK® ROUND — For welding, metal layout and fabrication



Markal® Silver-Streak® metal markers are ideal when highly-visible, torch-resistant marks are required during metal layout and fabrication work. The unique reflective lead is more visible through a welder's filter Flat and will not rub, burn or blow off like soapstone. Marks on all metal surfaces including oily or wet.



- Highly visible marks illuminate when cutting or welding
- Superior to soapstone in markability and durability; will not rub, burn or blow off surface
- Marks on oily, wet or rusty metals, and will not scratch or abrade surfaces
- Available in flat and round shapes
- Durable holders prevent stick breakage
- Durable, mechanical holder prevents stick breakage and features a convenient, built-in sharpener and pocket clip for easy storage.

## BLISTER

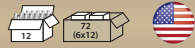
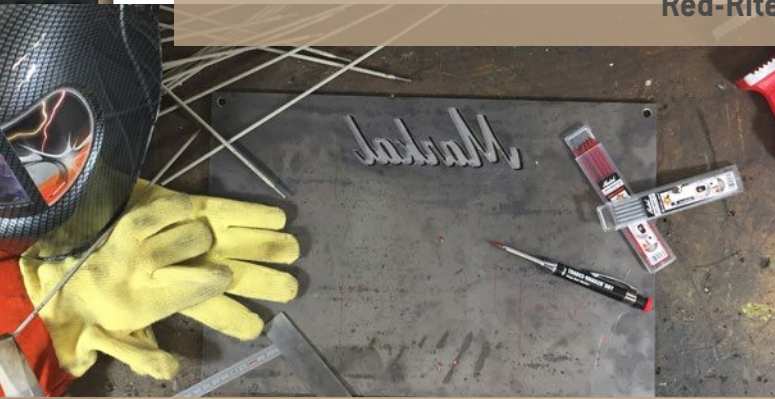
- 96006 ● 1 holder +  
1 lead Silver-Streak®  
96007 ● Refill of 6 leads  
Silver-Streak®

## RETAIL PACKS

- 22221 ● 1 holder + 2  
Refills packs Silver-Streak®  
22222 ● 2 refill packs  
Silver-Streak®



## TRADES-MARKER® DRY — Refills Silver-Streak® & Red-Riter® for Trades-Marker® Dry



### DETAILS

- 96267 ● Refill of 6 leads Silver-Streak®
- 96268 ● Pack of 6 Refills Red-Riter®
- 96260 1 Trades-Marker® Dry (+1 graphite lead)

### RETAIL PACKS

- 96281 ● 1 Retail Pack Welding (includes 1 Trades-Marker® Dry's holder + 1 graphite lead, and 1 Refill of 6 leads Silver-Streak®)
- 22227 ● 1 refill pack Silver-Streak®
- 22228 ● 1 refill pack Red-Riter®



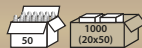
Markal Silver-Streak® and Red-Riter® welding refills for Trades-Marker® Dry make torch-resistant marks that will not burn or rub off like soapstone. Ideal for fine line marking during metal layout and fabrication, these highly visible marks illuminate when cutting or welding.

- Silver-Streak® Refills - Unique silver reflective lead perfect for welding and fabricating
- Red-Riter® Refills - Red lead perfect for welding and fabricating on aluminum, stainless steel and other light metals
- Durable and heat-resistant marks last longer than soapstone
- Ideal for use on and safe for all metals; clean, oily, or rusty
- For use only with Markal Trades-Marker® Dry
- Ø=2.8mm, L=125mm.



READ ABOUT OUR  
TRADES-MARKER® DRY p.51

## SOAPSTONE, FM.400 — Rectangular, high-heat resistant soapstone



### DETAILS

#### SOAPSTONE

- 80129 Flat (127 x 13 x 5 mm)
- 80130 Round (127 x Ø 6mm)

#### HOLDERS

- 80140 Flat holder
- 80141 Round holder

#### FM.400 (100 X 10 X 10 MM)

- 44030100 ○ White

All-natural soapstone is the economical, versatile solution for temporary marking during welding operations. Marks are easily removed and will not contaminate welds.



- Temporary marks can be easily removed
- Marks will not contaminate weld or damage metal surface
- Holders for flat shapes reduce breakage
- For more visible and durable marks, see our Silver-Streak® and Red-Riter® metal markers

# TEMPERATURE INDICATORS

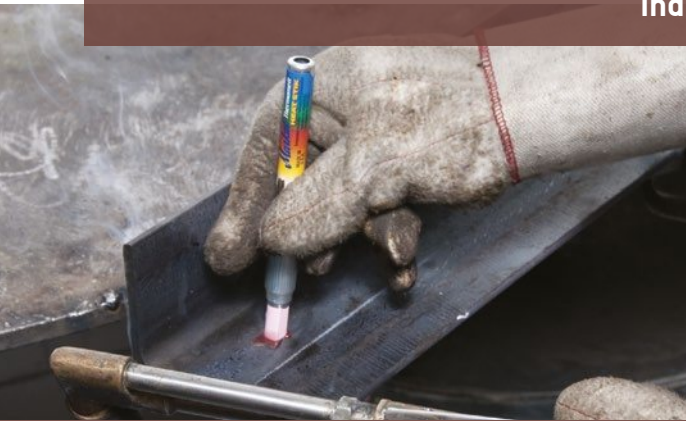
## FAST ACCURATE RESULTS

For the best in weld integrity, heating base materials to highly specific temperatures is required and our line of Thermomelt® temperature indicators offers the best combination of speed, ease of use, and accuracy. The simple-to-use stick melts quickly when applied to a surface at the stated temperature on the package to guarantee fast and accurate results every time without calibration.



TEMPERATURE INDICATORS (MARKAL)

## THERMOMELT® HEAT-STIK® — Accurate surface temperature indicating stick



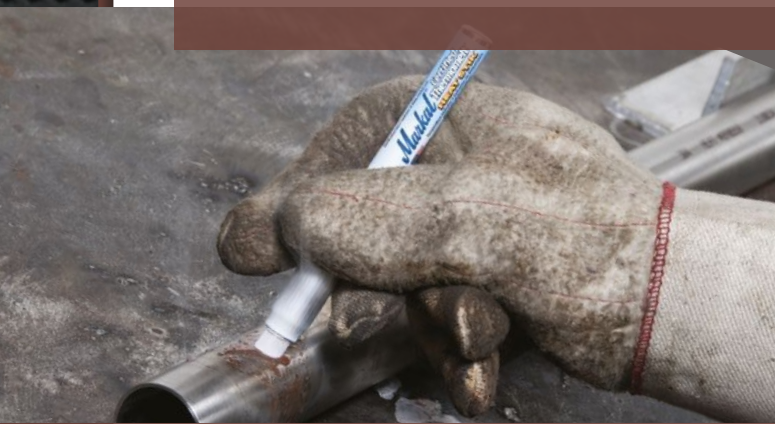
Thermomelt® HEAT-STIK® markers are a quick, low-cost method to accurately measure surface temperatures of various metals and equipment. Available in 23 Fahrenheit and 7 Celsius temperatures, the stick-in-holder design provides convenience and durability for long-lasting use in the workshop or in the field. Please note that the color of the Thermomelts are not a part of their function, since the temperature signal consists of melting. Indicator color is subject to change without notice.



- When the stick melts, the precise temperature is reached
- Long-lasting stick is 33% bigger than competition
- Accurate to within +/- 1% of Fahrenheit and +/- 3% Celsius rated temperatures; no need for sensor calibration
- Ideal for: pre-heating, post-weld heat treating, interpass temperature monitoring, stress-relieving and annealing

- Protective holder, shirt-clip and adjustment ring prevents breakage and improves handling
- For low corrosion (low chlorides/halogens) applications, see Thermomelt - Low Corrosion Temperatures
- Meets welding codes: AWS D1.1, ANSI/ASME Code B32.1 & B31.3, ASME Code Sec. I, III, and VII, NIST Traceable

# CERTIFIED THERMOMELT® HEAT-STIK® — Nuclear pre-certified, accurate temperature indicating stick



Pre-certified to meet nuclear and military low-corrosion specifications for stainless-steel fabrication and other super alloys, the Markal® Certified Thermomelt® HEAT-STIK® is a quick method to accurately measure metal surface temperatures and equipment. The 20 available temperatures are lot traceable for jobsite documentation. Please note that the color of the Thermomelts are not a part of their function, since the temperature signal consists of melting. Indicator color is subject to change without notice.



- Certified to meet the following U.S.A. and international specifications: LOW CORROSION, propriétés types :
  - EDF PMUC
  - MIL-STD-2041D
  - U.S DOE RDT F-7-3T (expired)
  - U.S Navy C3070
- Engineered to meet:
  - 200 ppm total halogens
  - 250 ppm each low melting point metals
  - 300 ppm total low melting point metals
  - 200 ppm sulfur
- Individual lot analysis and certification available at [www.markal.com/certified](http://www.markal.com/certified) for quick, accurate reference
- Protective holder, shirt-clip and adjustment ring prevents breakage and improves handling

## DETAILS

### THERMOMELT® HEAT-STIK®

	°C	°F		°C	°F
86400	38 °C	100 °F	86769*	232 °C	450 °F
86436*	52 °C	125 °F	86787*	246 °C	475 °F
86463*	66 °C	150 °F	86805*	260 °C	500 °F
86481*	79 °C	175 °F	86823*	288 °C	550 °F
86517*	93 °C	200 °F	86841	316 °C	600 °F
86526	101 °C	213 °F	86859*	343 °C	650 °F
86544*	107 °C	225 °F	86868	371 °C	700 °F
86562*	121 °C	250 °F	87021	774 °C	1425 °F
86589*	135 °C	275 °F	86402	50 °C	
86625*	149 °C	300 °F	86401	100 °C	
86661*	163 °C	325 °F	84664	150 °C	
86697*	177 °C	350 °F	86516	200 °C	
86715*	191 °C	375 °F	86563	250 °C	
86733*	204 °C	400 °F	86734	400 °C	
86751*	218 °C	425 °F	86977	1200 °C	

### THERMOMELT® HEAT-STIK® CERTIFIED

	°C	°F		°C	°F
89100*	38 °C	100 °F	89475*	246 °C	475 °F
89125*	52 °C	125 °F	89500*	260 °C	500 °F
89150*	66 °C	150 °F	89525*	274 °C	525 °F
89175*	79 °C	175 °F	89550*	288 °C	550 °F
89200*	93 °C	200 °F	89650*	343 °C	650 °F
89225*	107 °C	225 °F			
89250*	121 °C	250 °F			
89275*	135 °C	275 °F			
89300*	149 °C	300 °F			
89325*	163 °C	325 °F			
89350*	177 °C	350 °F			
89375*	191 °C	375 °F			
89400*	204 °C	400 °F			
89425*	218 °C	425 °F			
89450*	232 °C	450 °F			

\* Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.

# INK MARKERS

## IMMEDIATE MARK AND DRY

Preferred for their ability to immediately mark and dry on almost any type of surface, felt-tip ink markers can be found on almost any job site, in any factory, or throughout warehouses and shipping departments around the world. Our line of DURA-INK® markers utilize industrial-grade construction, tips, and long-lasting inks, making them ideal for use in almost any application.



INK MARKERS

### Extra-tough tips

Whether marking on cardboard or steel, the extra-tough tips resist spreading or mushrooming, ensuring long life and accurate marking performance.

### Wear-resistant ink formula

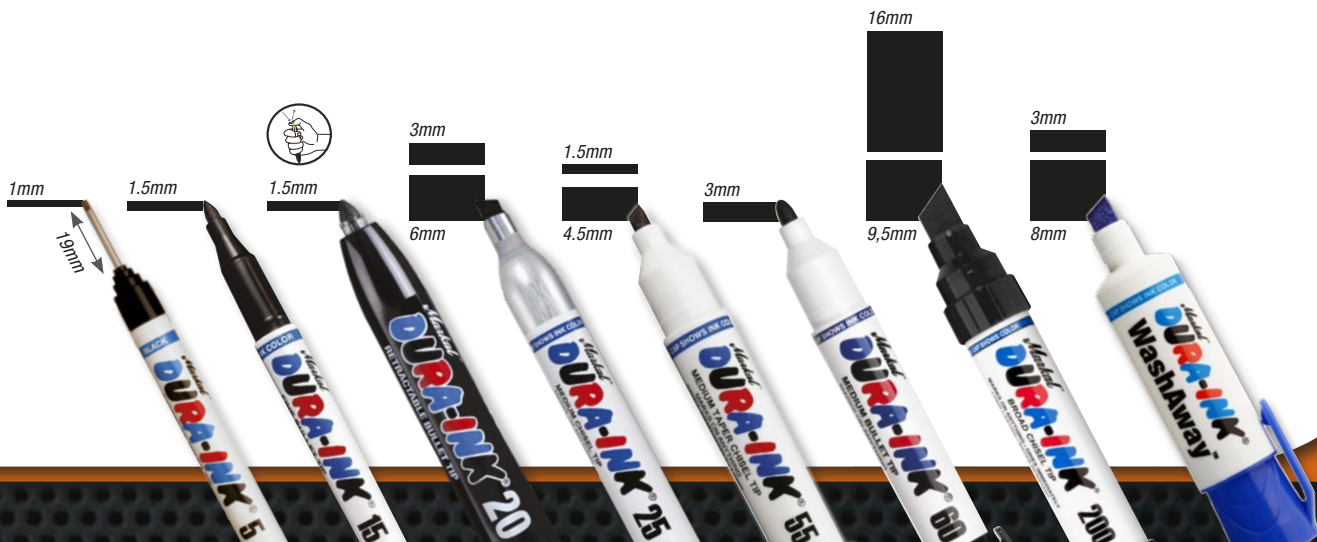
Formulated to dry quickly and leave bold, highly-visible marks, the industrial grade ink is safe for use on almost any surface and is wear and water-resistant.

### Durable and lightweight barrels

Lightweight enough to reduce hand fatigue, but large enough to be used comfortably even with work gloves, these impact-resistant barrels will hold up in tough working environments and help to extend the life of the marker.

### Roll-Resistant

Composed of sturdy plastic, these impact-resistant caps are designed to offer a quick and complete seal to prevent premature dry-out. The convenient clip caps help the markers to store easily in a pocket or tool belt, and resist rolling off of a table or workbench.





**DURA-INK® 5** — Permanent ink marker with extended micro tip

The DURA-INK® 5 is a permanent ink marker that uses an extended micro tip for precision marking needs and is ideal to use through drill holes, mounting brackets, or in any hard to reach area. The industrial-strength ink dries quickly on almost any surface and is wear- and weather-resistant.



**DURA-INK® 15** — Permanent ink marker with fine bullet tip

Ideal for layout work and parts identification, the DURA-INK® 15 permanent ink marker has a fine bullet tip for precise marking. The wear-resistant, fast-drying ink and durable tip and barrel makes this marker ideal for industrial environments.



**DURA-INK® 20** — Retractable permanent ink marker with fine bullet tip

The DURA-INK® 20 retractable permanent ink marker uses a one-handed, push-button for easy opening and closing. The convenient capless feature makes it ideal for use in tight work spaces and eliminates mess or lost caps.



**DURA-INK® 25** — Metal barrel, permanent ink marker with medium chisel tip

The DURA-INK® 25 permanent ink marker's large, chisel tip offers the flexibility of producing fine or broad marks on almost any surface. With an extra-large ink supply and metal barrel, this marker offers longer marking life and durability.



- One-handed, push button operation eliminates lost caps and prevents ink dryout
- Auto-storing clip instantly retracts tip to reduce mess or tip damage



**DISPLAY**

**DURA-INK® 5**  
199010  
(8x●)+(12x●)+(24x●)

**DURA-INK® 20**  
199007  
(12x●)+(20x●)

**DURA-INK® 60**  
199009  
(5x●)+(10x●)  
+(5x●)+(5x●)

**DURA-INK® 15**  
199006  
(8x●)+(20x●)+(8●)  
+(4x●)+(4x●)

**DURA-INK® 55**  
199008  
(5x●)+(10x●)  
(5x●)+(5x●)

**DETAILS**

**DURA-INK® 5**   
96522 ●  
96520 ●  
96519 ●  
-  
-

**DURA-INK® 15**   
96022\* ●  
96023 ●  
96025 ●  
96026 ●  
96027 ●

**DURA-INK® 20**   
96576\* ●  
96575 ●  
-  
-  
-

**DURA-INK® 25**   
96222 ● Red  
96223 ● Black  
- ● Blue  
- ● Green  
- ● Silver

**BLISTER**  
96098 ●x3

**BLISTER**  
96237 ●x2



**DURA-INK® 55** — Permanent ink marker with medium chisel tip

For flexible, finer line marking, the DURA-INK®55 features a medium chisel tip to produce both fine and broad permanent marks. This economical, durable plastic barrel withstands tough industrial uses and is the alternative to the high-cost metal barrels.



**DURA-INK® 60** — Permanent ink marker with medium bullet tip

The DURA-INK® 60 is a permanent ink marker with a durable, medium bullet tip to provide bold, clean marks. Ideal for industrial use, the ergonomic plastic barrel is easy to use even with work gloves.



**DURA-INK® 200** — Permanent ink marker with broadchisel tip

Ideal for equipment identification and signs, the DURA-INK® 200 permanent ink marker uses an over-sized tip to create large, highly-visible marks. The extra-large industrial barrel contains more ink for longer marking life.



**DURA-INK® WASH-AWAY®** — Wash removable ink marker for temporary marking

The DURA-INK® WashAway™ is a temporary ink marker that will quickly and completely wash off non-porous surfaces with water or cleaning solutions without leaving a residue or ghosting on the surface. Engineered specially for temporary marking applications, the highly-visible ink formula dries quickly to avoid smudging or lost marks and is ideal for use on most metals and glass.



- Fast-drying ink formula completely washes off all non-porous surfaces
- High-visibility marks are water and detergent removable without ghosting or residue
- Non-refillable marker to reduce mess and eliminate downtime
- Compact design for improved comfort and control

<b>RETAIL PACKS</b>			
<b>DURA-INK® 5</b>			
22241	4x●		22242 2x● + 1x● + 1x●
<b>DURA-INK® 15</b>			
22239	5x●		22240 1x● + 1x● + 1x● + 1x● + 1x●
<b>DURA-INK® 20</b>			
22251	3x●		22252 2x● + 1x●
<b>DURA-INK® 55</b>		<b>DURA-INK® 60</b>	
22243	22247	3x●	
22244	22248	1x● + 1x●	
22245	22249	1x● + 1x●	
22246	22250	1x● + 1x●	



<b>DETAILS</b>			<b>DURA-INK® 60</b>			<b>DURA-INK® 200</b>			<b>DURA-INK® WASH-AWAY</b>		
96528*	●		96535*○	●		96916*	●		-	●	Red
96529	●		96536°	●		96917	●		-	●	Black
96530	●		96537°	●		96915	●		96302	●	Blue
96531	●		96538°	●		96914	●		96303	●	Green
-						-			96301	●	Pink
						<b>BLISTER</b>					
						96543	●x2				

# GENERAL PURPOSE MARKERS

## EXCEPTIONAL FLEXIBILITY

From automotive quality control to construction, these markers offer exceptional flexibility and can be used on many different surfaces and in almost any industry. Engineered to meet the performance needs of industrial users and applications, these markers are an economical and effective marking solution for almost any user.

## FIND YOUR MARKER

- TRADES-MARKER® DRY
- TRADES-MARKER®
- TRADES-MARKER® WS
- CHINA-MARKER
- FM.120
- LUMBER CRAYON 200
- FM.213 / FM.220 / FM.230
- SM.500
- ULTRASCAN®
- SCAN-IT® PLUS
- ZS.124 / ZS.130
- ZS.224 / ZS.230
- ZS.324
- ZS.424
- PRO-EX®

	PERMANENT														ERASABLE																					
	METALS	CLEAN, DRY	ROUGH	ALUMINUM	STAINLESS STEEL	PLASTICS	CLEAN, DRY	RUBBER	GLASS, CERAMIC	CLEAN, DRY	WOOD	CLEAN, DRY	ROUGH	WET	BRICK, STONE	CLEAN, DRY	ROUGH	WET	CARTON/PAPER	CLEAN, DRY	PAINTED SURFACES	CLEAN, DRY	TILES, POLISHED STONE	CLEAN, DRY	METALS	STANDARD STEEL, CLEAN, DRY	ALUMINUM	STAINLESS STEEL	PLASTICS	CLEAN, DRY	GLASS, CERAMIC	CLEAN, DRY				
TRADES-MARKER® DRY	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
TRADES-MARKER®	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
TRADES-MARKER® WS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
CHINA-MARKER	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
FM.120	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
LUMBER CRAYON 200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
FM.213 / FM.220 / FM.230	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
SM.500	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
ULTRASCAN®	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
SCAN-IT® PLUS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ZS.124 / ZS.130	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ZS.224 / ZS.230	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ZS.324	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ZS.424	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
PRO-EX®	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○ Preference ○ Other choices




## TRADES-MARKER® DRY — Deep-hole Marker for hard-to-reach areas







TRADES-MARKER® DRY is a graphite clutch pencil with an extended fine tip. Fully designed in metal for more resistance than plastic holder, it incorporates a convenient sharpener and a clip. It can also be used with color leads for bright and dark surfaces, or with Welding refills featuring Silver Streak® and Red Riter® leads.




### DETAILS

TRADES-MARKER® DRY .....    
 96260 Trades-Marker® Dry


REFILLS .....    
 96262  6x graphite leads

96263  2x graphite leads ,  
 2x  , 2x 

96265  6x leads red

96266  6x leads yellow

96267  6x leads Silver-Streak®

96268  6x leads Red-Riter®


RETAIL PACKS .....    
 96264 Trades-Marker® Dry +  
 1 refill pack n°96263

96281 Trades-Marker® Dry +  
 1 refill pack n°96267

22223 1 refill pack 

22224 1 refill pack 

22225 1 refill pack 

22226 1 refill pack 

- Fine tip extends to 45mm, ideal for hard-to-reach places (allows for deep markings, in fixation holes)
- Cap, body and clip in metal to ensure durability and strength for professional use
- Automatic lead ejection: a single press on the button pushes the lead out by 2mm
- Practical as it is always at hand, the sharpener is incorporated into the push button, allowing for extremely precise markings
- Sturdy clip for hooking onto shirts or pants.
- Lead easy to replace: unscrew the push button, insert the new lead, screw the button back in (colored lead must already be sharpened before insertion)
- Thanks to 4 types of refills, (graphite, colored for polyvalent marking, or welding refills with Silver-Streak® and Red-Riter®), it can write or mark on all types of surfaces and materials (dusty, rough, smooth, greasy, wet, dark, etc.)
- Uses lead 2.8mm in diameter, compatible with other refill types on the market

### DISPLAYS

96261 Trades-Marker® Dry display 

96269 Display Welding

96280 Display Mix



REF. 96261  
 (20 x 96260) +  
 (10 x 96262) +  
 (10 x 96263)

REF. 96269  
 (20 x 96260) +  
 (10 x 96267) +  
 (10 x 96268)

REF. 96280  
 (20 x 96260) +  
 (5 x 96267) + (5 x 96268)  
 + (3 x 96262) + (3 x 96263)  
 (2 x 96265) + (2 x 96266)



### TRADES-MARKER® — Mechanical, all-surface marker

TRADES-MARKER® has the marking versatility of a paper-wrapped grease pencil combined with simple push-button advance that helps reduce cost and waste. This refillable, all-surface marker leaves a wear-resistant mark and is safe for all surfaces.

- Great for many surfaces including: smooth, rough, rusty, or dirty surfaces
- Marks are rub- and weather-resistant, leaving a bold, permanent mark
- Marker refills eliminate mess and paper waste of grease pencils, saving time and money
- Holder maximizes complete use of marker
- Durable plastic holder helps prevent breakage and keeps hands and clothing clean
- Push-button advancing makes for easy, one-handed use.
- Convenient clip allows for pocket storage and prevents rolling off work table
- Multiple colors available for easy identification



**DETAILS**

1 HOLDER + 12 REFILLS

- 96130 ○ White
- 96131 ● Yellow
- 96132 ● Red\*
- 96133 ● Black\*
- 96137 ● Orange

\* Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.

### TRADES-MARKER® WS Water-soluble, removable, mechanical all-surface marker

TRADES-MARKER® WS is a refillable, all-surface marker that leaves a removable mark and is safe for all surfaces. Marks can be wiped away easily with water.

- Great for many surfaces including: smooth, rough, rusty, or dirty surfaces
- Marks can be easily wiped away with water, ideal for quality control and temporary marking needs
- Holder maximizes complete use of marker
- Durable plastic holder helps prevent breakage and keeps hands and clothing clean
- Push-button advancing makes for easy, one-handed use.
- Convenient clip allows for pocket storage and prevents rolling off work table
- Multiple colors available for easy identification



**DETAILS**

1 HOLDER + 12 REFILLS

- 96190 ○ White
- 96191 ● Yellow
- 96193 ● Red
- 96192 ● Black

### CHINA MARKER — Paper-wrapped marker, grease pencil

The paper-wrapped grease pencil is a smooth-writing, economical marker for marking almost any surface.

- Low-cost, general purpose marker for smooth writing on most surfaces
- Moisture-resistant marker, can be used effectively in most climates
- No sharpening required; pull string and unwrap paper
- High-visibility colors for instant identification



**DETAILS**

- 96010 ○ White
- 96011 ● Yellow
- 96012 ● Red
- 96013 ● Black
- 96014 ● Purple
- 96015 ● Blue
- 96016 ● Green



## TYRE MARQUE® Temporary solid paint crayon for tire marking

For temporary marking on tires, the TYRE MARQUE® solid paint crayon marks smoothly on many surfaces. These bright, smear-resistant colors are easily seen in low light areas and are ideal for tire marking.

- Smooth marking on rough or dirty surfaces for bold, visible marks
- Marks easily on wet or cold rubber surfaces



## LUMBER CRAYON 200® — Economical, wax- based lumber crayon

Markal® Lumber Crayon #200® is a soft, standard-grade lumber crayon for general-use marking and works well in cold climates. The wax-based mark is weather- and UV-resistant.

- Known in construction trades as «keel» or layout chalk
- Formulated for weather- and fade-resistant marking on most surfaces
- Special softer formula allows for superior marking in cold climates



## FM.120 — General purpose industrial crayon

Markal® FM.120 is a wax-based marking crayon that works in all weather conditions. The marks are weather- and fade-resistant for long-lasting visibility.

- Marks on rough surfaces, such as concrete, wood, steel, and cardboard
- Formulated for weather- and fade-resistant marking on indoor and outdoor surfaces
- Softer formula allows for superior marking in cold climates
- Available in 6 bright colors for instant identification
- Unsharpened when delivered



## FM.213 / FM.220 / FM.230 — Square chalk for temporary marking

Industrial square chalk for temporary marking on most surfaces. Marks are easy to remove and its square design offers a variety of line widths.

- Marks are easily wiped away
- Square shape provides various mark sizes
- Paper holder keeps hands clean during use (FM.213)



### DETAILS

- 51420 ○ White  
51421 ● Yellow

12,7 MM



### DETAILS

127mm x 13mm

- 80350 ○ White  
80351 ● Yellow  
80352 ● Red  
80353 ● Black  
80354 ● Orange  
80355 ● Blue  
80356 ● Green  
80358 ● Purple



### DETAILS

120x11mm

- 44010100 ○ White  
44010200 ● Yellow  
44010300 ● Red  
44010400 ● Blue  
44010500 ● Green  
44010600 ● Black



### DETAILS



90x13x13mm

- FM.213 ○ 44060100



100x20x20mm

- FM.220 ○ 44070100



100x30x30mm

- FM.230 ○ 44080100



-15°C → 50 °C

## ULTRASCAN® — High-performance crayon for grade mark readers

Markal® ULTRASCAN® lumber grading crayons provide the best color separation and character recognition in the industry for grade mark readers.

- Bright colors provide the highest fluorescent response of any lumber grading marker
- Maximum character recognition and accuracy for the lowest possible reject rates
- Each batch is tested to meet the specifications for Lucidyne ColorScan® and Newnes-McGehee grade mark readers
- Unique formula provides excellent writing on wet and green lumber, even with fungicide coating
- colors for superior color separation compared to competitive fluorescent wax crayons
- Specifically developed for Lucidyne, Newnes-McGehee and Cypress grade mark readers
- One hardness for all temperatures, eliminates duplicate inventory
- Dramatically longer use, provides up to 4X the writing life of competitive crayons

### DETAILS

- 82447 ● Yellow 63
  - 82459 ● Bright orange 44
  - 82467 ● Bright Red 34
  - 82468 ● Neon Orange 31
  - 82469 ● Tan 45
  - 82470 ● Tangerine 03
  - ...
- (for more colours: [markal.com](http://markal.com))

## SCAN-IT® PLUS — Crayon for grade marking

Markal® SCAN-IT® PLUS is a versatile grade marking crayon with multiple hardnesses and sizes to mark most lumber types in varying production environments.

- Each batch is tested to meet the specifications for Lucidyne ColorScan® grade mark readers
- Superior color separation for accurate grading compared to competitive crayons
- Makes smear-resistant marks, reduces scanning errors
- Up to 14 fluorescent colors in three hardnesses for varying production environments
- Offered in 2 sizes: standard 17 mm (11/16"), hex shape 13 mm (1/2")

### DETAILS

- MEDIUM / HARD**
- 82336 / 82236 ● Orange
  - 82337 / 82237 ● Sherbet
  - 82337 / 82237 ● Watermelon Red
  - 82339 / 82239 ● Grasshopper Green
  - / 82245 ● Pink Lightning
  - 82346 / 82246 ● Emerald Green

## SM.500 — Fluorescent spot marking aerosol spray

SM.500 is a spot marker with high-pigmented fluorescent paint for high visibility on any surface. This exterior-grade paint degrades slowly under UV exposure making it ideal for outdoor job sites like highways, commercial construction sites, pipelines, and land development.

- Paint adheres to most surfaces and dries quickly for increased work productivity
- Opaque fluorescent paint improves mark visibility in all weather conditions
- UV-resistant paint slowly degrades, extending mark life on outdoor surfaces
- Security cap prevents unintended paint release
- Seven colors for color coding on job site

### DETAILS

- 40100100 ○ White
- 40100200 ● Yellow Fluo
- 40100400 ● Blue Fluo
- 40100500 ● Green Fluo
- 40101000 ● Pink Fluo
- 40101600 ● Red Fluo
- 40101700 ● Orange Fluo
- 40100900 ● Grey
- 40100600 ● Black





## ZS.124 / ZS.130 Oval Carpenter pencil

ZS 124 & ZS.130 are carpenter pencils, ideal for marking wood, cardboard, and other surfaces. The premium quality wood resists breaking when stored with heavy tools. Available in 24 and 30 cm.

- HB. soft lead is easy to sharpen
- Design prevents rolling on surfaces and is easy to use
- Red varnish coating protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Unsharpened when delivered

## ZS.224 / ZS.230 Masonry Pencil

ZS 224 & ZS.230 are masonry pencils, ideal for marking on stone and other hard surfaces. The premium-quality wood resists breaking when stored with heavy tools. Available in 24 and 30cm.

- Soft lead is easy to sharpen
- Hard Graphite lead for great durability
- Oval design prevents rolling on surfaces and is easy to use
- Green varnish coating protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Unsharpened when delivered

## ZS.324

ZS.324 is a red varnished triangular pencil, ideal for marking on every kind of smooth surfaces, including glass. The premium-quality wood resists breaking when stored with heavy tools.

- Soft lead is easy to sharpen
- Graphite lead easy to remove
- Triangular design prevents rolling on surfaces and fits well in the hand.
- Red varnish coating with dipped end protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Sharpened when delivered

## ZS.424

ZS.424 is a blue varnished rectangular pencil, ideal for marking on wet wood. When used dry, it leaves a gray mark similar to a pencil's lead, but which cannot be erased. When used wet, its tip moistened by water produces an indelible bright purple writing.

- Soft lead is easy to sharpen
- Rectangular design prevents rolling on surfaces and fits well in the hand.
- Blue varnish coating protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Unsharpened when delivered

### DETAILS



ZS.124	44091124	44092124	-
ZS.130	44091130	44092130	-
ZS.224	44091224	44092224	-
ZS.230	44091230	44092230	-
ZS.324	-	-	44090324
ZS.424	-	44092424	-



# ENGRAVERS

## MANUAL AND DEFINITIVE

Markal® engravers and etching markers leave permanent marks that outlast crayon, ink and paint marks. Our high performance micro-percussion, electric arc, or air-powered engravers use various marking techniques for glass, steel, tools, ceramics, plastics and most other industrial surfaces and tools.

## CA.003 — Electric arc engraver



### DETAILS

- 50421003 Complete machine
- 50422010 10 Electrodes

### SPARE PARTS

- 50400000 Transformer
- 50421001 Electric arc marking pen
- 50422011 Contact plate
- 50400001 Mandrel + pliers
- 50422001 Coil 12V

- Burns deeply into the conductive metals using a 40 watt arc strength and 100 arcs/second for bold, permanent marks
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Engraving marks are unaffected by weather and UV-light for long-lasting identification
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Carrying case included for easy storage and transport
- Product includes: 12-15V transformer, engraver, pack of ten electrodes,

- conductive Flat receptacle and carrying case
- One year parts and labor warranty
- Fast repairs made at LA-CO Industries Europe S.A.S. facility
- Quality-made in France since 1970
- CE approved



## VG.490 — Universal electric engraver



### DETAILS

- 50431700 Complete machine

### SPARE PARTS

- 50431720 Tip adapter
- 50431721 Diamond tip
- 50431722 Carbide tip (Pack of 5)
- 50431723 Profiled Tip (1 of each)

- Micro-percussion tool produces impacts for bold, permanent marks on multiple surfaces
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Engraving marks are unaffected by weather and UV-light for long-lasting identification
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Complete with one box including 4 tips and an adapter for marking various surfaces.
- Carrying case included for easy storage and transport
- Vibration strength: a (peak)~= 74,02 m/s<sup>2</sup> = 7,545 g (peak value) a (rms)~= 52,34 m/s<sup>2</sup> = 5,336 g (rms-value/root-mean-square-value)
- Cable length: 1,8 m



1. Tip adapter
2. Diamond Tip
3. Carbide Tip
- 4 & 5. Profiled Tips



Filling deep marks with Lacquer-Stik® Markal for a better visibility



P.34

Universal engraver for all materials from soft to extra hard surfaces like iron, steel, glass, non ferrous metal, stone, ceramic plastic, wood, and more. Easy and convenient, our VG.490 is plugged directly into mains and is used like a pen. Delivered with diamond hard metal and carbide tip, one pack of 2 modelling tips for soft metals such as copper, tin and Aluminum ...



## PN.500 — Pneumatic engraver



### DETAILS

50431500 PN.500

### SPARE PARTS

50432001 Carbide tip 0,20mm  
50432002 Carbide tip 0,35mm  
50432003 Carbide tip 0,50mm

- High-frequency impacts produce deep, highly-visible marks on various surfaces
- Ideal for continuous use on assembly lines or anywhere high-volume engraving is required
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- High-quality steel body for industrial applications
- No transformer : lightweight for easy operation
- Use compressed air supply (6 BAR maximum) to adjust depth of marks
- Long one meter connection hose for flexibility at work station
- Fill in the deep marks for increased visibility with Markal® Lacquer-Stik®
- Carbide tip 0.35 mm included

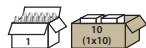


## SC.800 — Acid etching pen



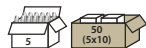
### DETAILS

50121800 SC.800



### REFILLS ACIDS

50122004 SC.862 Blue  
50122005 SC.865 Green



### NEUTRALIZING SOLUTION

50123871 SC.871



- Permanent etched mark for identification on various metal surfaces
- The acid etch produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Hand-held etching marker is portable; does not need a power or air supply
- Ideal for identification, security, and theft prevention
- Two replaceable cartridges:
  - SC.862 blue cartridge to etch steel used in construction or tools
  - SC.865 green cartridge to etch stainless steel, copper, nickel, lead, alloy, and bronze
- SC.871 corrosion inhibitor solution stops the etching process for improved control



# DOT MARKERS

**AUTONOMOUS, RELIABLE AND ECONOMICAL**

Markal® has developed autonomous dot markers that could be integrated into a machine. Based on same technology as our Stylmark®, our STYLOTUBE will mark on many kind of surfaces with a bright and permanent mark, for quality control or processing.



**PN.200**

**Automated dot marker**



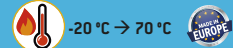
**PN.200D**

**Automatic refillable ball tube marker for dots marking**



**RS.2000 & RS.1000**

**Replacement paint cartridge for Stylotube**



Markal® Stylotube PN200 is an automated metal-ball tip marker for high volume dot marking applications on assembly lines. Designed for easy installation into an automated process, the pressurized, hands-free marking system allows for full use of the replacement RS.2000 and RS.1000 refill cartridges.

Markal® Stylotube PN200D is an automated metal-ball tip marker designed for vertical, overhead or horizontal dot marking applications on assembly lines. The space-saving design allows for easier installation in automated processes and the pressurized hands-free marking system allows for full use of the replacement RS-type cartridges.

Markal RS.2000 replacement paint cartridge can be used with all Markal Stylotube marking products. The xylene-free paint will not drip making it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet surfaces. The low-sulfur, low-chloride, and low-halogen formula allows for safe marking on stainless steel

- Fully automated marking system allows for continuous paint delivery on vertical, overhead, or horizontal surfaces
- Space-saving design allows for easier installation in automated systems
- Requires use of compressed air supply (0.2 BAR)
- Pneumatic device improves productivity over manual marking products
- Pressurized system ensures full use of replacement paint cartridges
- Refillable stainless steel holder keep hands and clothing clean
- Durable steel ball tip marks on rough or smooth surfaces
- Offered in 3 sizes: 2 mm, 3 mm and 6 mm for varied mark thickness
- Designed for use with the following Markal® replacement cartridges: RS.2000, RS.1000

### RS.2000

- Replacement cartridge for all Stylotube marking products
- Pressurized Stylotube systems ensure full use of replacement paint cartridges
- Unique paint designed to not drip on vertical or overhead surfaces
- 11 bold, bright paint colors are weather-, water-, and UV-resistant
- Safe for use on stainless steel and other alloy metals where corrosion resistance is a requirement
- Mark temperature resistance: 200°C (392°F)
- Designed for use with the following Markal Stylotube products: RS, RS.PN100, RS.PN200, RS.PN200D

### RS.1000

- High temperature paint is ideal for welds, ingots, castings, forgings, and other annealed parts
- Paint withstands temperatures up to 1000°C

### DETAILS

- 96601 PN.200 (3mm)
- 96602 PN.200D (3mm)



### REFILLS RS.2000

- 96603 White°
- 96604 Yellow°
- 96605 Red°
- 96606 Blue°
- 96607 Green°
- 96608 Black°
- 96609 Orange°
- 96610 Purple°
- 96611 Grey°
- 96612 Pink°
- 96613 Brown°



### REFILLS RS.1000

- 22300122 White°
- 22300222 Yellow°

# TEMPIL® TEMPERATURE INDICATORS

## LEADER IN ADVANCED TEMPERATURE INDICATION-TECHNOLOGIES

Since 1938, Tempil® has been a leader in the development of innovative and accurate temperature indication technology for multiple markets. Our cost-effective solutions can monitor your supply chain, check critical temperatures in the manufacturing process or ensure a products' performance in the field. With our Tempil products, we have utilized advanced and reliable indication and prevention technology, to produce a range of surface temperature products that allow for safe and versatile surface measurements. Cost-efficient, easy-to-use, and available in multiple formats to meet your specific application needs. Tempil is delivering the surface measurement solutions you can count on, when you need them most.

F 177°C

Tempil®

Tempilstik®  
TEMPERATURE INDICATOR

Made in U.S.A.

# TEMPILSTIK® — Fast, accurate surface temperature indicator



Providing accuracy, confidence and compliance for over 80 years, Tempilstik® is the original temperature-indicating stick with the best combination of precision and convenience for surface temperature measurement. Specially engineered for accurate temperature indication in pre-heating, interpass and post-weld heat treating applications, Tempilstik® is the industry's leading choice for use in the most critical jobs. Please note that the color of the Tempilstik® are not a part of their function, since the temperature signal consists of melting. Indicator color is subject to change without notice.

- 116 temperatures available from 38°C (100°F) to 1093°C (2000°F)
- Stick instantly melts at designated temperature for easy and immediate visual inspection
- Calibration-free with 100% reliability
- Accurate to within +/- 1% of Fahrenheit and +/- 3% Celsius rated
- Comply with preheat temperature requirements of AWS D1.1, ASME Code Sec. I, III and VIII, ANSI/ASME Code B31.1 and B31.3.
- Imprinted part number, temperature and lot code across entire stick for improved traceability
- Made in USA



## DETAILS

### Tempilstik® Fahrenheit Temp

28000	38 °C / 100 °F
28002	43 °C / 109 °F
28004	48 °C / 119 °F
28005	52 °C / 125 °F
28006	66 °C / 150 °F
28007	73 °C / 163 °F
28008	76 °C / 169 °F
28009	79 °C / 175 °F
28010	83 °C / 182 °F
28011	87 °C / 188 °F
28012	93 °C / 200 °F
28013	97 °C / 206 °F
28014	101 °C / 213 °F
28015	104 °C / 219 °F
28016	107 °C / 225 °F
28019	121 °C / 250 °F
28020	124 °C / 256 °F
28021	128 °C / 263 °F
28022	132 °C / 269 °F
28023	135 °C / 275 °F
28024	142 °C / 288 °F
28025	146 °C / 294 °F
28026	149 °C / 300 °F
28027	152 °C / 306 °F
28028	156 °C / 313 °F
28029	163 °C / 325 °F
28030	173 °C / 344 °F
28031	177 °C / 350 °F
28032	184 °C / 363 °F

28033	191 °C / 375 °F
28034	198 °C / 388 °F
28035	204 °C / 400 °F
28036	212 °C / 413 °F
28037	218 °C / 425 °F
28039	232 °C / 450 °F
28040	239 °C / 463 °F
28041	246 °C / 475 °F
28042	253 °C / 488 °F
28043	260 °C / 500 °F
28044	274 °C / 525 °F
28045	288 °C / 550 °F
28046	302 °C / 575 °F
28047	316 °C / 600 °F
28048	343 °C / 650 °F
28049	371 °C / 700 °F
28050	399 °C / 750 °F
28051	427 °C / 800 °F
28052	454 °C / 850 °F
28053	482 °C / 900 °F
28055	510 °C / 950 °F
28056	538 °C / 1000 °F
28057	550 °C / 1022 °F
28058	566 °C / 1050 °F
28059	593 °C / 1100 °F
28060	621 °C / 1150 °F
28061	649 °C / 1200 °F
28062	677 °C / 1250 °F
28063	704 °C / 1300 °F
28064	760 °C / 1400 °F

28065	788 °C / 1450 °F
28066	816 °C / 1500 °F
28067	843 °C / 1550 °F
28068	871 °C / 1600 °F
28069	899 °C / 1650 °F
28070	927 °C / 1700 °F
28072	982 °C / 1800 °F
28073	1038 °C / 1900 °F
28074	1066 °C / 1950 °F
28075	1093 °C / 2000 °F

### Tempilstik® Celsius Temp

28300	40 °C / 104 °F
28301	50 °C / 122 °F
28302	55 °C / 131 °F
28303	60 °C / 140 °F
28304	70 °C / 158 °F
28305	75 °C / 167 °F
28306	80 °C / 176 °F
28307	85 °C / 185 °F
28308	90 °C / 194 °F
28309	95 °C / 203 °F
28310	100 °C / 212 °F
28312	110 °C / 230 °F
28313	115 °C / 239 °F
28314	120 °C / 248 °F
28315	125 °C / 257 °F
28316	130 °C / 266 °F
28317	140 °C / 284 °F
28318	150 °C / 302 °F

28319	155 °C / 311 °F
28320	160 °C / 320 °F
28321	165 °C / 329 °F
28322	170 °C / 338 °F
28323	175 °C / 347 °F
28324	180 °C / 356 °F
28325	190 °C / 374 °F
28326	195 °C / 383 °F
28327	200 °C / 392 °F
28328	210 °C / 410 °F
28329	215 °C / 419 °F
28330	220 °C / 428 °F
28331	225 °C / 437 °F
28332	230 °C / 446 °F
28333	235 °C / 455 °F
28336	250 °C / 482 °F
28338	270 °C / 518 °F
28339	280 °C / 536 °F
28340	290 °C / 554 °F
28341	300 °C / 572 °F
28342	320 °C / 608 °F
28343	350 °C / 662 °F
28345	400 °C / 752 °F
28347	460 °C / 860 °F
28349	500 °C / 932 °F
28350	560 °C / 1040 °F
28351	600 °C / 1112 °F
28352	625 °C / 1157 °F
28355	700 °C / 1292 °F

## TEMPSTIK® TEST KIT — Temperature indicator and reference kit



### DETAILS

28600 Test Kit including the following temperatures:

52°C	93°C	135°C	177°C	218°C	260°C	371°C
66°C	107°C	149°C	191°C	232°C	288°C	427°C
79°C	121°C	163°C	204°C	246°C	316°C	

Tailor-made for welding inspectors, instructors and supervisors, Tempstik® Test Kit is an essential, one-stop tool that provides you with all the information needed for determining the proper temperatures for welding, heat treating, soldering, brazing and other operations involved in the fabrication of most metals.

- 20 Tempstik® Test Kit indicators systematically spaced between 52°C (125°F) 427°C (-800°F)
- Stick melts at designated temperature for easy and immediate visual inspection with +/-1% accuracy.
- Calibration free with 100% reliability

## IRT-16 — Non-contact infrared temperature measurement device



### DETAILS

24200 IRT-16  
 24201 IRT-16 Certified  
 24202 K-Probe Thermocouple  
 24203 IRT16 Certified ISO/CEI 17011-EA-IAF

The IRT-16 is engineered to provide instant, superior accuracy and consistency in surface temperature measurement for a wide range of applications. The lightweight and compact design of the IRT-16 makes temperature measurement on hard-to-reach surface convenient and efficient.

- Temperature measurement range between -60°C (-76°F) -625°C (-1157°F) with read-out accuracy of +/- 2%
- Laser pointer with sensitive 16:1 distance to spot ratio for improved accuracy.
- Four-digit backlit dual display ideal for low-light areas
- °C or °F selectable readout
- Min/Max/Avg and differential temperature mode available
- Built-in jack for K-Type thermocouple probe to allow direct contact measurement
- NIST certified units available

## ESTIK™ — Direct-touch electronic surface thermometer



### DETAILS

24290 Estik™  
 24251 Estik™ Certified NIST  
 24252 Estik™ Thermocouple  
 24253 Estik™ Certified ISO/CEI 17011-EA-IAF

Incorporated with the latest micro-thermocouple technology and an advanced accuracy of +/- 2%, this patented Estik measures the surface temperature from 0°C to 537°C. Specially engineered for fast and convenient monitoring, Estik improves accuracy by eliminating errors due to reflection and other surface conditions.

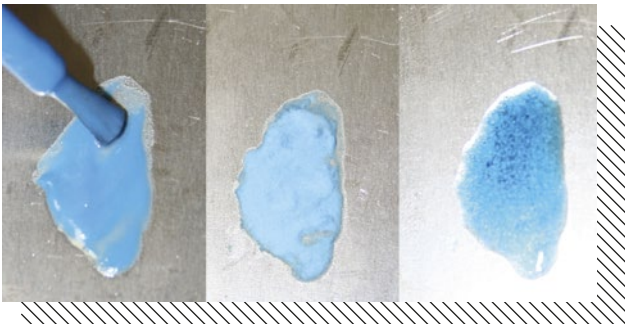
- Ergonomic hand grip with one button operation
- Instant measurement read-out
- Three-digit bright LED display
- Durable heat-resistant housing with rubberized grip
- °C or °F selectable readout

# TEMPILAQ® — Fast-indicating surface temperature coating



Tempilaq® Indicating coating is an efficient, convenient and affordable method to verify the achievement of a specific temperature on a wide range of surfaces under dynamic conditions. Easily painted on any surface, Tempilaq® leaves an irreversible mark that is optimal for heat-treating, preventive maintenance and any other temperature sensitive applications.

- Easy application with quick-dry formula on any surface
- Melts at designated temperature leaving a noticeably different mark
- Wide temperature range from 79°C (175°F) 1038°C (-1900°F)
- Excellent accuracy within +/- 1%
- Only use Tempilaq® Green Label Thinner to dilute or replace evaporated solvent



# Tempilaq®

## DETAILS

### TEMPILAQ® 2 OUNCE [55 ML]

24400.....	79 °C /175 °F	24421.....	343 °C /650 °F
24401.....	93 °C /200 °F	24422.....	371 °C /700 °F
24402.....	107 °C /225 °F	24423.....	399 °C /750 °F
24403.....	121 °C /250 °F	24424.....	427 °C /800 °F
24404.....	135 °C /275 °F	24425.....	454 °C /850 °F
24405.....	149 °C /300 °F	24426.....	482 °C /900 °F
24406.....	156 °C /313 °F	24427.....	510 °C /950 °F
24407.....	163 °C /325 °F	24428.....	538 °C /1000 °F
24408.....	177 °C /350 °F	24429.....	550 °C /1022 °F
24410.....	191 °C /375 °F	24430.....	566 °C /1050 °F
24411.....	204 °C /400 °F	24431.....	593 °C /1100 °F
24412.....	218 °C /425 °F	24432.....	621 °C /1150 °F
24413.....	232 °C /450 °F	24433.....	649 °C /1200 °F
24414.....	246 °C /475 °F	24434.....	677 °C /1250 °F
24416.....	260 °C /500 °F	24435.....	704 °C /1300 °F
24417.....	274 °C /525 °F	24436.....	760 °C /1400 °F
24418.....	288 °C /550 °F	24438.....	816 °C /1500 °F
24419.....	302 °C /575 °F	24439.....	871 °C /1600 °F
24420.....	316 °C /600 °F	24440.....	927 °C /1700 °F

### TEMPILAQ® THINNER

24597.....Thinner 59 ml

### TEMPILAQ® QUART [946 ML]

24554.....	191 °C /375 °F	24565.....	593 °C /1100 °F
24558.....	399 °C /750 °F	24566.....	621 °C /1150 °F
24560.....	454 °C /850 °F	24567.....	649 °C /1200 °F
24562.....	510 °C /950 °F		
24564.....	566 °C /1050 °F		



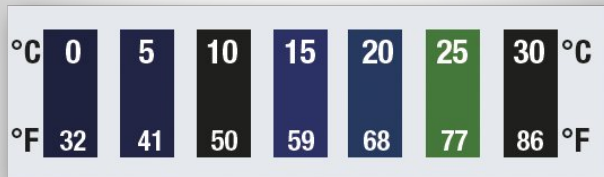
TEMPERATURE INDICATORS (TEMPIL)

# TEMPIL® TEMPERATURE SENSITIVE LABELS

## TEMPERATURE MONITORING

Temperature indicating labels are an economical temperature indication solution that can be easily applied to almost any surface for later monitoring, making it ideal for preventative maintenance, logistics, quality control, manufacturing, and many other applications.

## TEMPILABEL REVERSIBLE (LIQUID CRYSTAL®) — Reversible Temperature Indicating Labels



Providing users with a high level of flexibility, Tempilabel® reversible labels indicates accurate readings as the temperature fluctuates. Each label is equipped with seven specific temperature levels for easy identification and monitoring. Available in pack of 10 labels.

- Excellent accuracy of +/- 2% of the Fahrenheit rating
- LCD technology for real-time, accurate readings as temperature fluctuates
- Temperature range from -30°C (-22°F) 120°C (-248°F)
- Calibration-free
- Oil, water and steam resistant

### DETAILS

26901	°C	30	35	40	45	50	55	60
	°F	86	95	104	113	122	131	140
26903	°C	60	65	70	75	80	85	90
	°F	140	149	158	167	176	185	194

# TEMPILABEL® SERIES 4 & TEMPILABEL SERIES 21®

- Four temperature readings per labels for max/min applications
- Excellent accuracy to +/- 2% of the Fahrenheit rating
- Temperature range from 38°C (100°F) to 182°C (360°F)
- Permanent record for inspection and quality control
- Calibration-free
- Oil, water and steam resistant

## TEMPILABEL® SERIES 4 — Four-Level, Irreversible Temperature Indicating Label



Tempilabel® Series 4 labels are designed to deliver immediate, accurate and reliable readings for up to four temperatures in a variety of applications or environments. Tempilabels can be quickly affixed to almost any surface and used to quickly indicate when a precise temperature is reached. Available in pack of 10 labels, or in pack of 500 labels.



### DETAILS

#### PACK OF 10

26700	°C	38	43	49	54
	°F	100	110	120	130
26701	°C	54	60	66	71
	°F	130	140	150	160
26702	°C	77	82	88	93
	°F	170	180	190	200
26703	°C	88	93	99	104
	°F	190	200	210	220

26705	°C	166	171	177	182
	°F	330	340	350	360
26706	°C	52	66	79	93
	°F	125	150	175	200
26707	°C	38	66	93	121
	°F	100	150	200	250
26708	°C	93	121	149	177
	°F	200	250	300	350

#### ROLL OF 500

26750	°C	38	43	49	54
	°F	100	110	120	130
26751	°C	77	82	88	93
	°F	170	180	190	200
26752	°C	93	121	149	177
	°F	200	250	300	350

## TEMPILABEL® SERIES 21 — Single-Level, Irreversible Temperature Indicating Label



Tempilabel® Series 21 labels are uniquely designed to deliver immediate, accurate and reliable readings in a variety of applications or environments. Tempilabels can be quickly affixed to almost any surface and used to quickly indicate when a precise temperature is reached. Available in pack of 210 labels, or in rolls of 1000 labels.



### DETAILS

#### PACK OF 210

26250	°C	38
	°F	100
26251	°C	43
	°F	110
26252	°C	49
	°F	120
26254	°C	54
	°F	130
26255	°C	60
	°F	140
26256	°C	71
	°F	160
26258	°C	82
	°F	180

#### ROLL OF 1000

26275	°C	38
	°F	100
26276	°C	43
	°F	110
26277	°C	49
	°F	120
26278	°C	54
	°F	130
26279	°C	60
	°F	140
26280	°C	71
	°F	160
26282	°C	82
	°F	180

#### PACK OF 210

26259	°C	88
	°F	190
26260	°C	93
	°F	200
26261	°C	99
	°F	210
26262	°C	104
	°F	220
26263	°C	110
	°F	230
26264	°C	116
	°F	240
26265	°C	121
	°F	250

#### ROLL OF 1000

26283	°C	88
	°F	190
26284	°C	93
	°F	200
26285	°C	99
	°F	210
26286	°C	104
	°F	220
26287	°C	110
	°F	230
26295	°C	116
	°F	240
26288	°C	121
	°F	250

#### PACK OF 210

26266	°C	127
	°F	260
26267	°C	132
	°F	270
26268	°C	138
	°F	280
26269	°C	143
	°F	290
26270	°C	149
	°F	300
26271	-	°C 204
	-	°F 400
26272	-	°C 260
	-	°F 500

#### ROLL OF 1000

26289	°C	127
	°F	260
26290	°C	132
	°F	270
26291	°C	138
	°F	280
26292	°C	143
	°F	290
26293	°C	149
	°F	300
-	-	°C 204
-	-	°F 400
-	-	°C 260
-	-	°F 500

# HIGH TEMPERATURE COATING

## WELDABLE PRIMER AND HEAT-ABSORBING COATING

TEMPIL® has developed specific products where heat causes troubles, from protecting NASA's Space Shuttle Orbiter to solar panels. TEMPIL® has also developed special weldable Primer to save time in the welding processes.



### ANTI-HEAT®

Heat-absorbing compound



Anti-Heat® is specially formulated to eliminate heat damage and discoloration on materials exposed to high temperatures. Engineered to absorb and dissipate the heat generated by welding, brazing, or soldering from traveling through the metal surface, Anti-Heat® efficiently stops heat related damages such as buckling, cracking, warping or other metal distortions from occurring.

- Absorbs and dissipates heat to eliminate damage and discoloration
- Prevents heat migration through metal surfaces
- Non-toxic & Non-hazardous
- Asbestos-free and odorless
- Adheres to horizontal, vertical and overhead surface

#### DETAILS

24003 Anti-Heat tube (355 ml)



### BLOXIDE

An aluminum-based weldable primer



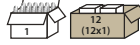
Bloxide® is a versatile weldable primer with a unique aluminum-based formula that eliminates cleaning or removal before welding, thus saving time and labor costs. Enhanced by corrosion preventative features, Bloxide® can be applied to a wide range of metals for extended periods of storage, assisting in producing X-Ray quality welds.

- Enhanced corrosion resistance for extended periods of storage
- Aluminum-base formula allows for welding without removal, reducing downtime and rework contamination
- High temperature resistant to 427°C (800°F)
- Can be sprayed, brushed or parts can be dipped into it

#### DETAILS

24100 Bloxide 3,79L

24104 Bloxide 355ml (spray can)



### PYROMARK®

High-temperature resistant coating



Pyromark® is a specially formulated coating for metal surfaces intended for high heat exposure. The silicone based coating provides long-lasting protection against oxidation and corrosion. Ideal for solar energy or any application that requires efficient heat transfer, the flat black formula is engineered with solar absorptivity of 0.95, which makes Pyromark® and almost perfect black box absorber.

- Silicone based coating for long-lasting protection against oxidation and corrosion
- Pyromark® 1200 withstands 538°C (1000°F)
- Pyromark® 2500 withstands 1093°C (2000°F)
- Improves heat transfer in infra-red heating applications due to high emissivity properties.
- Solar absorptivity of 0.95 is an ideal black box absorber.
- Only use Pyromark® Thinner to dilute or replace evaporated solvent

#### DETAILS

25002 Pyromark® 1200 Flat Black 3,79L

25010 Pyromark® 2500 Flat Black 3,79L



# INDUSTRIAL MAINTENANCE PRODUCTS

## MRO AND PVF CHEMICALS

Our LA-CO® brand of high quality, high-performance MRO, plumbing and HVAC chemicals is a globally trusted partner for professional contractors and maintenance departments. We are committed to serving several industries including plumbing, HVAC, pipefitting, maintenance operations, repair services and original equipment manufacturing...



## SLIC-TITE® — Heavy-duty pipe thread compound



Specially formulated with PTFE for added sealing power, Slic-tite® is the premium thread sealant paste. It has been successfully used for decades to seal water, air, steam, natural gas, and more. It removes easily from skin and clothing. Slic-tite thread sealant works in extremely high pressure systems, and it comes with several approvals so that the job is completed to code.



- Contains PTFE for greater sealing power
- Pressures: 204 BAR (3,000 PSI) for gas; 680 BAR (10,000 PSI) for liquid
- Sealing temperature: -46°C to 260°C (-50°F to 500°F)
- Safe, non-toxic, non-drying
- Can be used on variety of metals and plastic, so you only need one thread sealant for many types of jobs
- Washes off hands and clothes easily; less time spent cleaning up
- Do not use on oxygen service; use Oxytite Paste or Slic-tite PTFE Tape

### DETAILS

#### SLIC-TITE® PASTE + BRUSH IN CAP (=BIC)

- 42009 118 ml (1/4 pt.) BIC
- 42019 236 ml (1/2 pt.) BIC
- 42029 473 ml (1 pt.) BIC
- 41219 236 ml (1/2 pt.) BIC



#### SLIC-TITE® PASTE

- 42012 473 ml (1 pt.)
- 42013 946 ml (1 qt.)
- 42014 3,79 L (1 gal)

#### SLIC TITE® STIK

- 41600 Stik 35g / 1 1/4 oz



#### SLIC-TITE® TAPE

- 44082 1,27 x 762 cm (1/2"x300")
- 44083 1,27 x 1524 cm (1/2"x600")
- 44084 1,27 x 3048 cm (1/2"x1200")
- 44085 1,9 x 762 cm (3/4"x300")
- 44086 1,9 x 1524 cm (3/4"x600")
- 44094 1,27 x 660 cm (1/2"x260")
- 44095 1,27 x 660 cm (1/2"x260")



#### PIPE THREAD TAPE OF PTFE (ECONOMIC ALTERNATIVE)

- 44071 1,27 x 660 cm (1/2"x260")
- 44072 1,27 x 1320 cm (1/2"x520")
- 44075 1,9 x 1320 cm (3/4"x520")
- 44078 2,54 x 132 cm (1"x520")



Pression	LIQUID GAS	PASTE		STIK		TAPE	
		PSI	BAR	PSI	BAR	PSI	BAR
		10.000	680	5.000	340	2.000	136
		3.000	204	500	34	2.000	136
Sealing temp.	°C	-46°C to 260°C		-46°C to 177°C		-268°C to 288°C	
	°F	-50 °F to 500 °F		-50 °F to 350 °F		-450 °F to 550 °F	





## E-Z BREAK® COPPER GRADE Anti-Seize compound

Equipment vulnerable to galling and rust needs protection. The best way to protect your equipment from seizing and corrosion is to use EZ Break® Anti-Seize. Simply apply EZ Break® to nuts, bolts, and other metal parts, and your equipment will be rust free and easy to maintain.

- Working temperature: to 982°C
- Lubricates and protects nuts and bolts, making disassembly easy, even after years of service
- Resists galling, rust and corrosion so your metal parts won't "freeze up"
- Copper material is easy to use in most general applications
- Two different forms for easy use and application: paste and stick.

### DETAILS

8907 453g. BIC\*  
8910 283g. BIC\*



## E-Z BREAK® NICKEL GRADE Anti-seize compound

Equipment vulnerable to galling and rust needs protection. The best way to protect your equipment from seizing and corrosion is to use EZ Break® Anti-Seize. Simply apply EZ Break® to nuts, bolts, and other metal parts, and your equipment will be rust free and easy to maintain.

- Working temperature: to 1427°C
- Lubricates and protects nuts and bolts, making disassembly easy, even after years of service
- Resists galling, rust and corrosion so your metal parts won't "freeze up"
- Nickel material is excellent for ultra-high temperature applications

### DETAILS

8971 226g. BIC\*  
8972 453g. BIC\*



## REGULAR FLUX Soldering flux paste

LA-CO Regular Flux is a water soluble flux that meets industry standard ASTM B813. With NSF and UPC approvals, this all-weather flux is the ultimate flux for all copper soldering.

- Water-soluble paste won't leave residue in water piping
- Meets industry standard ASTM B813 and contains no zinc chloride to reduce corrosion concerns.
- Non-acid, non-toxic, and lead-free to eliminate safety concerns
- Cleans pipe upon application, allowing solder to run more smoothly around the pipe
- All-weather formula for use in hot and cold climates
- Certifications
  - ASTM B813
  - NSF 61
  - UPC
  - Mil. Spec. Mil-F-4995 Type II

### DETAILS

22101 56g.  
22104 113g.  
22194 113g. BIC



22107 453g



\* Brush In Cap (=BIC)



## FLUX M-A

### Stainless steel flux liquid

Developed for fast fluxing action on stainless steel, M-A Flux is excellent for projects on stainless gutters and roofs, among many other applications. It contains no zinc chloride and it will not cause progressive corrosion on stainless pipe. There is no neutralizing necessary when using it to solder stainless steel.

- Fast fluxing action for stainless steel and chrome
- Contains no heavy metal chlorides, preventing potential flux damage

**DO NOT USE ON POTABLE WATER TUBING**



**DETAILS**  
23913 946ml



## ALUMINUM FLUX PASTE

### Solders aluminum at low temperatures

This flux paste is designed for aluminum-to-aluminum or aluminum-to-copper soldering at low temperatures. It provides for soldering below the melting point of the aluminum.

- Low-temperature soldering prevents aluminum components from melting
- New aluminum HVAC components will not stall job completion
- Resists electrolytic action between aluminum and copper, preventing leakage between dissimilar metals

**DETAILS**  
22407 454g.



## COOL GEL® — Gel Heat Barrier Spray

Cool Gel® can be used to protect lead free valves during the soldering process and with any other soldering or brazing job to protect components and materials from costly heat damage. Cool Gel's unique, no-drip gelled formula evaporates within 48 hours, eliminating cleanup. Using Cool Gel is easier than using a heat blanket, and provides assurance the job can be completed without costly heat damage.

- Protects lead free valves during soldering
- Reduces the threat of costly heat damage to rubber seals and gaskets
- Protects components and materials during soldering to avoid heat damage
- Protects painted and finished surfaces from discoloration due to torch heat
- Unique gelled formula sticks to surfaces without dripping or running off
- Clear, non-staining gel leaves no residue, eliminating



**DETAILS**  
11509 946ml  
11513 473ml



## BLOC-IT®

### Heat absorbing paste

This heat absorbing paste has been time tested for protecting materials from heat damage. Typical uses include soldering on ball, dielectric, and solenoid valve components. BLOC-IT prevents metal distortion and protects painted or finished surfaces from adjacent soldering, brazing, or welding.

- Absorbs heat effectively, protecting adjoining surfaces from heat damage
- Safe, non-toxic, no asbestos, harmless to skin, and odorless
- Easy application and cleanup; non-staining



**DETAILS**  
11511 283g.



## HEAT-SEAL STIK®

Premixed epoxy sealer for use on refrigeration systems

Refrigeration coils are prone to pinhole leaks and hairline cracks. Heat-Seal Stik® was specifically made to seal these small holes for an immediate fix, even if the appliance will need to be replaced eventually. Heat-Seal Stik works with heat - no mixing of epoxy compounds necessary.

- Sealing temperature: up to 177°C (350°F)
- Pressure: to 41 BAR (600 PSI)
- Repair pinhole leaks and get refrigeration system running again without having to replace an entire appliance
- No mixing of epoxy compounds, heat activation saves time on the job
- Fast repairs completed in 90 seconds



## EPOXY STIK®

Epoxy repair compound for water piping systems

Water system leaks and cracks can be easily sealed with the Epoxy-Stik®. Safe on potable water systems, this epoxy hardens in 5-10 minutes. Simply remove the protective wrapping and mix the two compounds together.

- Withstands temperatures up to 121°C (250°F)
- Hardens in 5-10 minutes and cures fully in 24 hours, so your system will be running again in little time
- Can be applied under water for submerged pipe leaks
- After one hour can be drilled, tapped, filed, sanded and painted - your job can be easily finished in little time



## OYLTITE-STIK®

Epoxy repair compound for low pressure equipment

For fast temporary repair on small engine leaks, use Oyltite-Stik®. It stops oil and gasoline leaks without the need for equipment draining. Use Oyltite-Stik on low-pressure gas tanks, oil tanks, and more.

- Pressure to 1 BAR (15 PSI)
- Stops leaks fast for temporary repair of oil and gasoline leaks
- Apply directly to the fuel tank without draining, less time is spent stopping the leak



DETAILS  
11575 -  
11577 blister



DETAILS  
19571 -



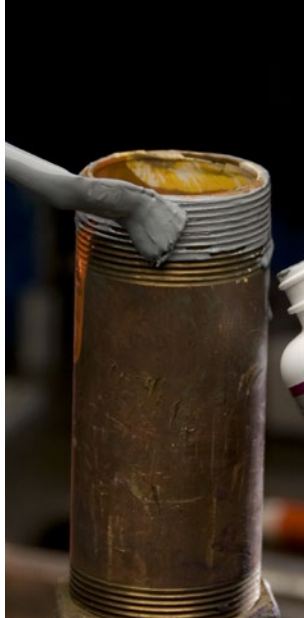
DETAILS  
11475 35g.



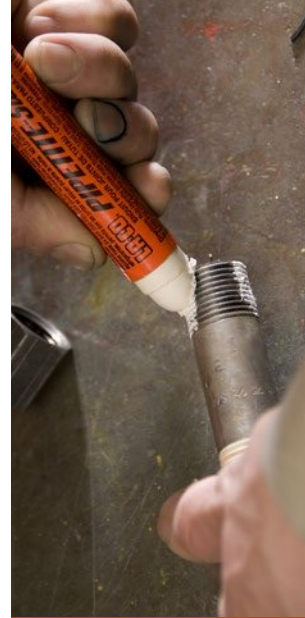
**PLASTO-JOINT®  
STIK** — Plastic  
thread sealant in a  
stick



**T-O-T®** — Pipe  
thread compound



**PIPETITE®  
PASTE**— Soft set  
pipe thread  
compound



**PIPETITE® STIK**  
Thread sealant in a  
stick

## FOR SEALING OXYGEN CONDUITS USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE

Ideal for pool and spa installation, the Plasto-Joint® Stik was designed for superior sealing of plastic pipe threads. It easily fits inside a shirt pocket for convenient mobility.

- Pressures: 20 BAR (300 PSI) for gas; 34 BAR (500 PSI) for liquid
- Sealing temperature: up to 121°C (250°F)



DETAILS  
11775 35g.

This economical pipe thread sealant is great for sealing metal threads on many types of systems with pressures under 34 BAR (500 PSI).

- Pressures: 24 BAR (350 PSI) for gas; 34 BAR (500 PSI) for liquid
- Sealing temperature: up to 177°C (350°F)
- No-drip siliconized formula for fast application on metal threads
- Lead-free, non-toxic, no V.O.C.'s



DETAILS  
12219  
(236ml.)  
BIC

This economical pipe thread sealant is great for sealing metal threads on many types of systems.

- Pressures: 177 BAR (2,600 PSI) for gas; 340 BAR (5,000 PSI) for liquid
- Sealing temperature: up to 204°C (400°F)
- No V.O.C.'s



DETAILS  
12109  
(118ml.)  
BIC

12110  
(236ml.)  
BIC

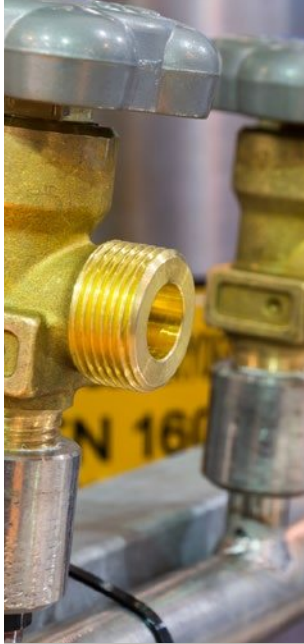
PIPETITE® STIK is LA-CO®'s original thread sealant. It was designed for professional pipefitters who needed an efficient way to seal pipe. It easily fits inside a shirt pocket for convenient mobility.

- Pressures: 24 BAR (350 PSI) for gas; 136 BAR (2,000 PSI) for liquid
- Sealing temperature: up to 177°C (350°F)
- Safe, non-toxic, non-drying



DETAILS  
11175 35g.

11176 113g.



## OXY-TITE® Pipe thread sealant for oxygen systems

Oxygen piping systems need a specially formulated thread sealant, and OXY-TITE® is the perfect product for these sensitive systems. Each batch of OXY-TITE® is tested to the stringent standard of ASTM G-72.

- PTFE thread sealant specifically formulated for oxygen services
- Pressures: 180 BAR (2,600 PSI) for oxygen gas
- Sealing temperature: -196°C to 232°C (-320°F to 450°F)
- No V.O.C.'s

DETAILS  
42805 113 g



## LA-CO® LOC® Anaerobic pipe thread sealant

Designed to harden and seal in the absence of oxygen, LA-CO® LOC® Anaerobic Thread Sealant is excellent for heavy vibration areas such as fire sprinkler systems, compressors, and reciprocating equipment.

- Pressures: 204 BAR (3,000 PSI) for gas; 680 BAR (10,000 PSI) for liquid
- Sealing temperature: -54°C to 204°C (-65°F to 400°F)
- Contains PTFE for a positive seal
- Anaerobic adhesive provides locking power
- Contains no solvents that may shrink and weaken seal
- Ideal for threads in heavy vibration areas
- DO NOT USE ON OXYGEN SERVICE; USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE
- Made in USA with globally sourced materials

DETAILS  
49050 50ml.  
49250 250ml.



## LEAK TITE®- BLUE Economical thread sealant with PTFE

This blue sealant is excellent for sealing water, air, steam, natural gas, refrigerants, gasoline and ammonia. LEAK-TITE® Blue is also ideal for use on production lines and fabrication shops.

- Pressures: 102 BAR (1,500 PSI) for gas; 340 BAR (5,000 PSI) for liquid
- Sealing temperature: -46°C to 260°C (-50°F to 500°F)
- Contains PTFE particles for greater sealing power
- Will not harden or dry out over time, remains flexible for easy disassembly
- Safe, non-toxic, contains no solvents
- Washes off hands and clothes easily; less time spent cleaning up
- DO NOT USE ON OXYGEN SERVICE; USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE

DETAILS  
46009  
(118ml.)  
BIC



## OIL MARKER Handy universal lubricant in a marker form

Oil Marker is a all purpose lubricant and cleaner engineered with a convenient marker pen delivery system perfect for small parts. Useful for dissolving rusted screws, protecting electronic contacts, removing adhesives residues...

- Chisel tip marker for exact delivery to the contact avoiding drips and wiping
- Eliminates humidity: on electric or electronic circuits and contacts
- Cleans and leaves protective lubricant in one easy step
- Silicone free, safe on metals and plastics
- Offers protection from oxydation and corrosion while improving contact and conductivity



DETAILS  
31100001 Oil Marker  
199011 Display with  
32 markers



## PRECISION SPOUT OILER

General purpose lubricating oil

When equipment is in hard-to-reach places, professionals use the Precision Spout Oiler to get the job done. With a specially designed telescoping spout, LA-CO's Precision Spout Oiler can reach up to 33cm (13") to lubricate motors, bearings, and more.

- Special telescoping spout lubricates hard-to-reach areas up to 13" away
- Premium grade oil is excellent for all general purpose lubricating



DETAILS  
79704  
(118ml.)



## LUBRI-JOINT®

Water dispersible gasket lubricant

FBC™ System Compatible Lubri-Joint® is suitable for all types of pipelines - including PVC and soil pipe. It is ideal for lubricating rubber gaskets and can be applied to wet or dry surfaces.

- FBC™ System Compatible
- Ideal for lubricating rubber gaskets, promoting proper expansion, and ensuring correct fit
- Suitable for all types of pipelines, including PVC and soil pipe, so only one brand of gasket lubricant is needed
- Non-bacterial, non-petroleum, no objectionable odor
- Can be applied to wet or dry surfaces, making preparation easy
- Will not deteriorate natural or synthetic rubber, plastic gasket, or cast iron pipe



DETAILS  
78713  
(946ml)



## VISU-GLOW®

High-visibility leak detector

This leak detector is formulated with a high viscosity so it can be used on vertical surfaces. VISU-GLOW® is designed to detect leaks on CSST systems using its high-visibility fluorescent color, even in dimly lit areas.

- Temperature range: -9°C to 93°C (15°F to 200°F)
- Built-in dauber and high viscosity allow for easy application
- Highly visible fluorescent color shows brightly, even in dimly lit places
- Non-corrosive, non-toxic, safe for oxygen



DETAILS  
32898  
(240ml.)



## SURE-CHEK®

All-temperature leak detector

Specially formulated to work within a broad temperature range, Sure-Chek® leak detector can be used on CSST systems in many climates. It doesn't contain chlorides, so it won't damage metal pipe. Simply spray it on gas line connections and any leaks will be seen with sure-chek's highly visible fluorescent bubbles.

- All-temperature formula: -48°C to 93°C (-55°F to 200°)
- Handy spray bottle allows for easy, targeted application
- Ultra-sensitive long lasting bubbles for easy leak identification
- Non-corrosive, non-toxic, safe for oxygen



DETAILS  
32850  
(473ml.)



## ALL-WEATHER®

The All-Weather® brand of livestock marking and identification products is the world's most trusted brand for herd management on dairy and swine farms. Our All-Weather® livestock marking products have helped support global increases in herd sizes and have provided low-cost, efficient solutions for animal heat detection, vaccination, insemination, and other high-volume herd management needs.

## PAINTSTIK® LIVESTOCK MARKER — Real paint in stick form



The All-Weather Paintstik® is the original Livestock Marker created over 69 years ago. The special paint formula in stick form is designed to temporarily mark all types of livestock including dairy and beef cattle, hogs, and sheep. The non-toxic paint is safe for all types of livestock. Available in 10 colors for all your marking needs.

- Real paint for longer lasting identification
- Resists weather and water
- Non-toxic, safe for all livestock
- Wide range of colors to chose from
- Marks on wet or dry animals

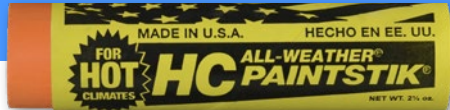


## HC PAINTSTIK® LIVESTOCK MARKER — Hot climate marking



The All-Weather HC Paintstik® is a Livestock Marker specially formulated to withstand the higher temperatures found in extreme hot climates. The solid paint in stick form will effectively mark livestock in a wide range of temperatures from 4° C to 55° C. The non-toxic paint is safe for use on all types of livestock including dairy and beef cattle, hogs, and sheep. Available in eight colors to meet all your marking needs.

- Special paint formula to withstand hotter summer temperatures
- Real paint for longer lasting identification
- Resists water and weather
- Non-toxic, safe for all livestock
- Marks on wet or dry animals
- Fits the Ultimate holder



## TWIST-STIK® LIVESTOCK MARKER — Twist-Stik® convenience



The All-Weather® Twist-Stik® Livestock Marker provides the convenience of a twist-up holder to keep hands and clothing cleaner and allow the entire use of the paint from each marker. The special paint formula is a proven economical way to temporarily identify livestock for sorting, inoculations, breeding and healthcare procedures. The non-toxic paint is water and weather resistant. Available in a wide range of colors for all your marking needs.

- Twist-Stik® holder keeps paint off hands and clothing
- Real paint for longer lasting identification
- Non-toxic, safe for all livestock
- Nine, highly visible colors available for all your identification needs
- Size: 3,17cm to 12cm



### DETAILS

PAINTSTIK®	HC PAINTSTIK®	TWIST-STIK®		PAINTSTIK®	HC PAINTSTIK®	TWIST-STIK®	
61011	-	-	Yellow Fluo	61022	61222	61062	Red
61012	61212	61072	Pink Fluo	61023	-	61086	Black
61016	61216	61076	Green Fluo	61024	61224	61040	Orange
61028	-	-	Orange Fluo	61025	61225	61065	Blue
61021	-	61061	Yellow	61026	61226	61066	Green
				-	-	61087	Purple

## QUIK SHOT® SPRAY PAINT INVERTED TIP — Fast, cost-effective livestock marking



All-Weather Quik Shot® provides a fast and economical way to mark dairy and beef cattle. The high-visibility colors are long lasting and easily seen on all colors of cows. The special water-based paint formula is quick drying and long lasting. The aerosol spray is equipped with an inverted tip.

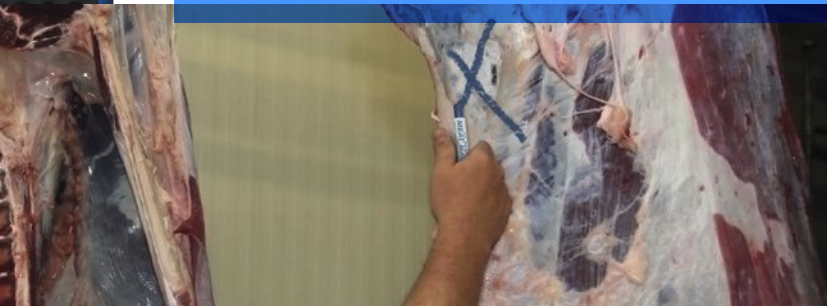


- Clean to use with no waste
- Fast drying paint for longer lasting identification on the cows
- Non-toxic, safe for all livestock
- Inverted tip spray can for convenient marking
- V.O.C. compliant
- Large 470 ml can for many marks per can
- Comes in regular and fluorescent colors

### DETAILS

61112		Pink Fluo	61191		Red
61114		Orange Fluo	61193		Blue
61116		Green fluo	61195		Black

## MEAT MARKER — For meat processing marking



All-Weather Meat Marker is the only marker registered by NSF for use in USDA inspected meat processing plants in the USA. New, improved marker gives twice the write-out per stick with greater breakage strength. Ideal for marking directly on animal carcasses and other meat parts.



- Designed to write on all types of animal carcasses during meat processing
- Only marker listed by NSF for use in USDA inspected meat processing plants in the USA
- Canadian Food Inspection Agency (CFIA) Compliant
- High-visibility color: purple
- Comes with new plastic sleeve with zipper for easy use
- Water-soluble

### DETAILS

62102		Purple
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## PLASTIC TAG MARKER — Permanent ink marker for plastic surfaces



A permanent ink marker engineered with a unique formula to etch into plastic surfaces and tags for long-lasting, highly-visible marks. The valve-actuated tip releases the wear-, weather- and UV-resistant ink on demand for smooth, continuous use.



5 MM



- Unique ink formula etches into polyurethane plastic surfaces and tags for long-lasting, highly-visible marking
- Fade- and weather-resistant ink for extended outdoor exposure
- Heavy-duty aluminum barrel for tough work conditions
- Convenient clip-cap stores marker easily in pockets and eliminates product roll

### DETAILS

96623		Black		
96734		Black (blister)		



Like any other tool, markers and temperature indication products are specialized to help professionals do the jobs they need to do. As the industry's leader in these categories, we continuously invests in research and development to meet the requirements of a constantly changing and advancing marketplace. Through careful product evaluation and analysis, our chemists create proprietary formulas, which are designed to meet the needs of our customers.

We are very proud to introduce our 2019 new products improving our range and helping users to do their jobs better, faster, and smarter than ever before.



With over 85 years of marking expertise, the industry's leader is available 24/7 to help. Whether on your phone, tablet, or computer, the new Markal.com is the ultimate resource for product information, pictures, videos, and technical data.

**Finding the right marker has never been easier.**

**Markal.com**

## OUR MISSION

*"We actively listen to our customers, providing them with quality, high-performance products around the world. We are ethically and environmentally responsible and support the growth and well-being of our employees."*



## LA-CO INDUSTRIES, INC.

LA-CO Industries, Inc. is a family owned global manufacturing company specializing in the manufacturing of industrial hand-held markers, temperature indicators, plumbing chemicals, and livestock identification products.

Since 1934, we have taken pride in the design and manufacturing of high quality, performance-based products for our customers' unique applications.

LA-CO Industries continuously invests in research and development to meet the requirements of a constantly changing and advancing marketplace. Through careful product evaluation and analysis, our chemists create proprietary formulas, which are designed to meet the needs of our customers.

Our experienced customer service representatives are the heart of LA-CO Industries. Interacting with customers every day, our team expertly provides quote, receives orders, prepares documents, assists in product

selection and answers customers inquiries.

Our manufacturing plants and warehouses in the United States and France allow our logistic specialists to efficiently serve customers' across the globe.

Our marketing department is committed to supporting our partners around the world. Lending our graphic design and creative expertise, we work with distributors to create unique promotions, sampling tools and cross-selling opportunities that are valuable to everyone, but most importantly the end-user.



# Markal®

**#1 in Industrial Markers**



LA-CO INDUSTRIES EUROPE



@lacoEurope



LA-CO INDUSTRIES EUROPE

## LA-CO INDUSTRIES

### EUROPEAN HEADQUARTERS

Allée des Combes  
PI de la Plaine de l'Ain  
01150 BLYES  
France  
Phone +33 (0) 4 74 46 23 23  
Fax +33 (0) 4 74 46 23 29  
info@eu.laco.com

### GLOBAL HEADQUARTERS

1201 Pratt Blvd.  
Elk Grove Village, IL 60007  
USA  
Phone (+1) 847.956.7600  
Fax (+1) 847.956.9885  
customer\_service@laco.com  
markal.com

## UVOZNIK:

Veltool Profi Alati DOO  
Milana Ješića lbre 3  
21000 Novi Sad  
www.veltool.com  
office@veltool.com

Tel:  
021 63 000 62  
021 400 337  
021 2701 424

