

RIGHT FOR THE JOB

INDUSTRIAL PRODUCTS
GUIDE

Markal[®]

Tempil[®]

LA·CO[®]

LA-CO Industries creates specialized products that are **RIGHT FOR THE JOB™**. From general marking tools to markers made especially for the unique needs of your job, and from temperature indicators to industrial coatings and chemicals, you'll find the products that will always perform to your professional standards.

MARKAL®

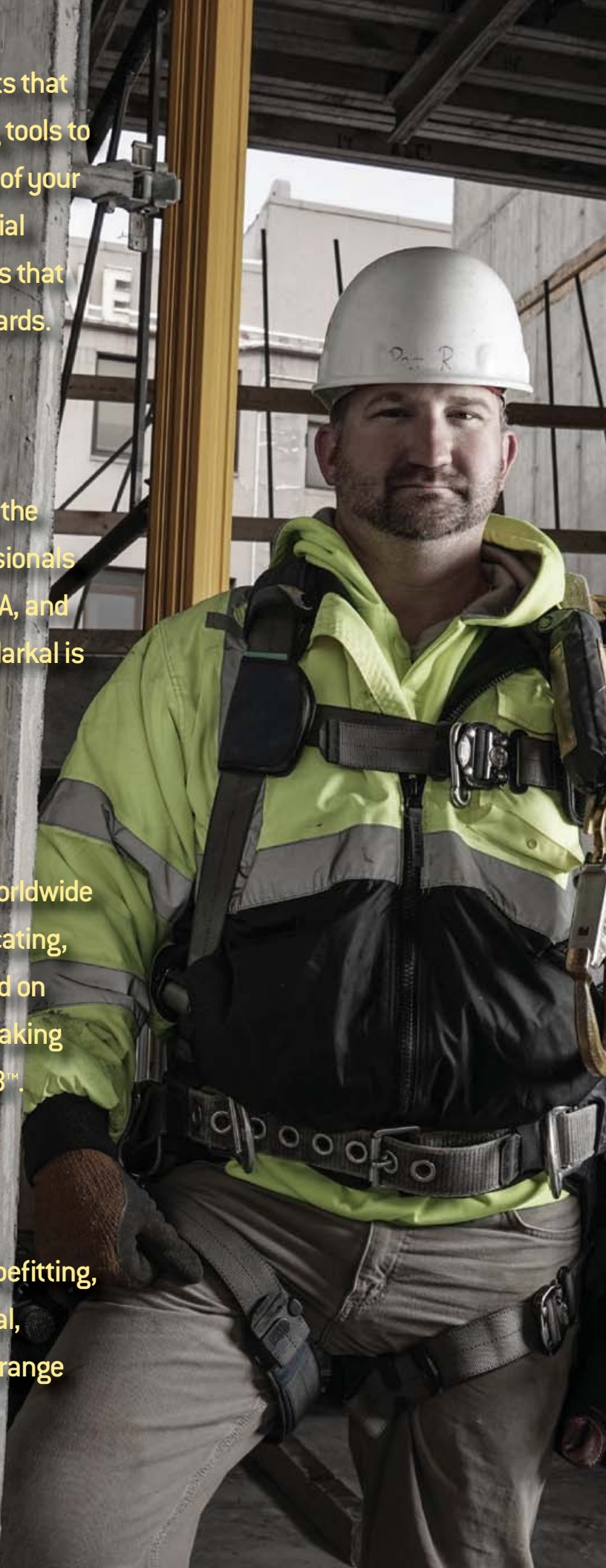
No other marker manufacturer has the quality, the precision, and the range of products for professionals and general industry as Markal. Made in the USA, and manufactured to deliver outstanding results, Markal is the industry's marking standard.

TEMPIL®

From Tempilstik® to Bloxide®, Tempil is known worldwide as the performance leader in temperature indicating, monitoring, and coatings. Professionals depend on Tempil's precision and technical capabilities, making each Tempil product exactly **RIGHT FOR THE JOB™**.

LA-CO®

Providing quality products for the plumbing, pipefitting, HVAC, and maintenance operations professional, LA-CO is a global leader in chemicals for a wide range of applications and solutions.



 **Made in America**

Products listed with this symbol are made in the USA with the highest attention to quality and dependability.

 **Xylene-Free**

Xylene-Free paint formulas reduce user health risks and eliminate California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.

 **Low VOC**

A Volatile Organic Compound (VOC) is a type of potentially harmful gas emitted by certain solids or liquids, hurting indoor air quality. Products with this symbol emit less amounts of harmful VOC's than other industrial paint markers.

 **Low Corrosion Colors**


Ideal for stainless steel and alloy metals, our Low Corrosion markers have low levels of chlorides, halogens, and sulfur to protect against unwanted degradation, pitting, or general weakening of materials. For more information see our Low Corrosion Marker Guide.

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Find a Marker Button

Like any other tool, finding the right marker can be the difference between extra time and labor, or a job well done. As the industry's leader in marking tools, Markal's unique Find a Marker button helps find the right marker for your job in five questions or less. Whether at your computer, in your office, or on your phone out in the field, visit Markal.com to find the optimal marker for your job quicker than ever!



LIQUID PAINT MARKERS For over 80 years, Markal® has been the trusted leader in industrial marking solutions because of our commitment to developing new and innovative products for use in some of the world's toughest environments. Ideal for use in the automotive industry, construction, welding, and metal production and fabrication, liquid paint markers are one of the most versatile and relied upon industrial marking tools across the world. These permanent and temporary liquid paint markers offer real paint in multiple tip sizes and colors, including a range of certified colors for nuclear and other corrosion-resistant applications.

PERMANENT	Valve Action [®] Paint Marker	Valve Action [®] Paint Marker UV	Valve Action [®] Paint Marker Certified	PRO-LINE [®] HP	PRO-LINE [®] WP	PRO-LINE [®] XT	PRO-LINE [®] HT	PRO-WASH [®]	PRO-LINE [®] Fine/Micro	PRO-MAX [®]	BALL PAINT MARKER [®]	Stylmark [®]
Metals												
Clean, Dry	■	■	■	■	■	■	■		■	■	■	■
Rough						■					■	■
Rusty						■					■	■
Oily				■								
Wet					■							
Annealing, Heat Treating							■					
Low Corrosion	■	■	■	■	■	■					■	■
Nuclear & Military Specifications			■									
Plastics												
Clean, Dry	■	■	■	■	■	■			■	■	■	■
Rough						■					■	■
Oily				■								
Wet					■							
Rubber												
Clean, Dry	■	■		■	■	■			■	■	■	■
Rough						■					■	■
Oily				■								
Wet					■						■	■
Glass, Ceramic												
Clean, Dry	■	■		■	■	■			■	■	■	■
Rough						■					■	■
Wet					■						■	■
Brick, Stone												
Clean, Dry	■	■		■	■	■			■	■	■	■
Rough						■					■	■
Wet					■						■	■
Cloth, Fabric												
Clean, Dry	■								■	■	■	■
Painted Surface												
Clean, Dry	■	■		■	■	■			■	■		
Rough						■						
Oily				■								
Wet					■							
Tile, Polished Stone												
Clean, Dry	■	■		■	■				■	■		
Wet					■							
Removable												
Non-porous Surfaces												
Clean, Dry								■				

■ Primary Selection ■ Secondary Selection



Mark Size 3mm



Mark Size 3mm



Mark Size 3mm

Valve Action® Paint Marker

For general marking

- Fast-drying, permanent paint for immediate handling reduces work downtime
- Dura-Nib medium bullet tip resists wear to provide long marking life
- Durable metal barrel and clip-cap reduce breakage and store easily in pocket



Case Quantity 48

Part No.	Color
96809	Brown*
96817	Purple*
96820	White*
96821	Yellow*
96822	Red*
96823	Black*
96824	Orange*
96825	Blue*
96826	Green*
96827	Gold*
96828	Light Green*
96830	Pink*
96832	Aluminum*
96835	Light Blue*
97050	Fluor. Yellow
97051	Fluor. Green
97052	Fluor. Orange
97053	Fluor. Pink

Case Quantity 144

96867 Replacement Nibs

♦ Marking range: -50°F to 150°F [-46°C to 66°C]

Valve Action® Paint Marker UV

Visible in UV light

- Makes clear, invisible marks that illuminate bright blue when viewed with an ultraviolet or black light
- Invisible paint formula is ideal for security, theft-prevention, and quality control
- Fast-drying formula reduces smearing
- Dura-Nib medium bullet tip resists wear to provide long marking life
- Durable metal barrel and clip-cap reduce breakage and store easily in pocket



Case Quantity 48

Part No.	Color
97054	Visible Blue

♦ Marking range: -50°F to 150°F [-46°C to 66°C]

Certified Valve Action® Paint Marker

Nuclear pre-certified

- Ideal for use on stainless steel or superalloys in industries that require prevention against corrosion, pitting, or degradation
- Certified to meet the following U.S.A. and international specifications:
 - 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



Case Quantity 48

Part No.	Color
96880	White*
96881	Yellow*
96882	Red*
96883	Black*

♦ Marking range: -50°F to 150°F [-46°C to 66°C]

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



Mark Size 3mm

PRO-LINE® HP

For oily surface marking

- Unique paint formula resists spreading and dries quickly through oily surfaces to leave precise, permanent marks
- Durable metal barrel and nib reduce breakage for longer marking life
- Easy-to-grip clip-cap allows for convenient pocket storage



Mark Size 3mm

PRO-LINE® WP

For wet surface marking

- Specially formulated paint resists running or spreading on wet or damp surfaces to leave permanent, highly-visible marks
- Metal barrel and fiber tip provide durability for longer marking life



Mark Size 3mm

PRO-LINE® XT

For rough surfaces and extreme durability

- Engineered for continuous and highly-visible marking on rough, rusty, and dirty surfaces
- Enamel paint for extreme durability and enhanced wear-, weather-, and chemical-resistance
- Available in 14 bold, fast-drying colors for immediate handling and reduced downtime
- Durable metal barrel and clip-cap reduce breakage and store easily in pocket



Case Quantity 48

Part No.	Color
96960	White*
96961	Yellow*
96962	Red*
96963	Black*
96964	Orange
96965	Blue*
96966	Green
96967	Silver*
96970	Light Green
96971	Light Blue*
96972	Gold
96973	Pink*
96974	Purple
96975	Brown*

Case Quantity 144

96908 Replacement Nibs

◆ Marking range: -50°F to 150°F (-46°C to 66°C)



Case Quantity 48

Part No.	Color
96930	White*
96931	Yellow*
96932	Red*
96933	Black*
96934	Blue*
96935	Green*
96936	Orange*
96937	Silver*

Case Quantity 144

96908 Replacement Nibs

◆ Marking range: -50°F to 150°F (-46°C to 66°C)



Case Quantity 48

Part No.	Color
97250	White*
97251	Yellow*
97252	Red*
97253	Black*
97254	Blue*
97255	Green*
97256	Orange*
97257	Silver*
97258	Light Green*
97259	Light Blue*
97260	Gold
97261	Pink*
97262	Purple
97263	Brown*

Case Quantity 144

97023 Replacement Nibs

◆ Marking range: -50°F to 150°F (-46°C to 66°C)



Mark Size 3mm



Mark Size 3mm



Mark Size Fine 1.5mm and Micro 1mm

PRO-LINE® HT

For high temperature resistance

- Fast-drying, liquid paint marker for high temperature resistance
- Engineered with *PrismaLock™* technology for long-lasting colors up to 1,800°F (982°C)
- Maximum mark readability (no color)
 - White - 2,100°F (1,148°C)
 - Yellow - 2,100°F (1,148°C)
 - Black - 2,200°F (1,204°C)
 - Blue - 2,000°F (1,093°C)



Case Quantity 48

Part No.	Color
97301	White
97302	Yellow
97303	Black
97305	Blue

PRO-WASH®

Removable liquid paint markers

- Fast-drying paint easily removes leaving surfaces free of mark ghosting or paint residue
- PRO-WASH W marks can be removed simply and quickly with water
- PRO-WASH D marks can be removed with detergent solutions that have a pH level of 10 or above
- High-strength, light-weight plastic barrel designed for industrial use



Case Quantity 48

Part No.	Color
PRO-WASH D	
97010	White
97011	Yellow
97012	Red
97013	Black
97015	Blue
97016	Green
PRO-WASH W	
97030	White
97031	Yellow
97032	Red
97033	Black
97035	Blue
97036	Green

Case Quantity 144

97023 Replacement Nibs

PRO-LINE® Fine and Micro

For precision marking

- Available in fine and micro tip sizes for precise, permanent paint marking
- High-strength, lightweight barrel designed for industrial-grade use
- Self-storing cap with clip protects tip for longer life and stores easily in pocket



Case Quantity 48

Part No.	Color
Fine	
96871	White
96872	Yellow
96873	Black
96874	Red
96875	Blue
96876	Green
96877	Orange
96879	Light Green
Micro	
96888	White
96889	Yellow
96890	Black
96891	Red

♦ Marking range: -50°F to 150°F (-46°C to 66°C)

♦ Marking range: -50°F to 150°F (-46°C to 66°C)

♦ Marking range: 0°F to 150°F (-18°C to 66°C)

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



Mark Size 5mm, 8mm or 14mm

PRO-MAX® Extra-large liquid paint marker

- Largest marks available (up to 14mm) in an industrial paint marker
- Extra-large tip ideal for signage or safety marking where immediate identification is required
- Valve-actuated tip releases paint on-demand for smooth, continuous use
- Durable barrel resists breakage and self-storing cap fits snugly on end when not in use



Case Quantity 24

Part No.	Color
90900	White
90901	Yellow
90902	Red
90903	Black
90904	Orange
90905	Blue
90914	Purple
90915	Gray
90917	Brown
90918	Pink



Mark Size 3mm

BALL PAINT MARKER® Metal roller ball marker

- Durable metal-ball tip resists wear and clogging for long-marking life on rough surfaces
- Non-drip paint formula allows for easy jobsite marking
- Industrial paint withstands harsh environments and weather conditions
- Sturdy plastic bottle with 3mm steel ball tip
- Plastic cap keeps tip clean between jobs



Case Quantity 48

Part No.	Color
84620	White*
84621	Yellow*
84622	Red*
84623	Black*
84624	Orange
84625	Blue
84626	Green



Mark Size 3mm

Stylmark® Ball tube marker

- Durable steel ball tip marks with indelible paint on smooth or rough surfaces
- Steel ball tip is resistant to very rough surfaces for long marking life
- Weather-, water-, and UV-resistant
- Unique paint designed to not drip on vertical or overhead surfaces
- Mark temperature resistance: 200°C (392°F)
- Made in EU



Case Quantity 48

Part No.	Color
96652	White*
96653	Yellow
96654	Red
96655	Black
96657	Blue
96658	Green

◆ Marking range: 0°F to 150°F (-18°C to 66°C)

◆ Marking range: -50°F to 150°F (-46°C to 66°C)

◆ Marking range: -4°F to -158°F (-20°C to 70°C)

INK MARKERS 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.

Roll-resistant caps

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.

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.

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.





DURA-INK® 5 Extended micro tip



Case Quantity 48

Part No.	Color
96520	■ Black

Industry Uses

- Metal fabrication
- Construction
- Automotive and other transportation
- Shipping supply
- Textile
- Aviation and aerospace

Surface Uses

- Metal
- Cardboard
- Pipes and tubes
- Plastic
- Glass
- Lumber and timber
- Cloth, fabric (textiles)

DURA-INK® 15 Fine bullet tip



Case Quantity 72

Part No.	Color
96022	■ Red*
96023	■ Black
96025	■ Blue
96026	■ Green
96027	■ Silver



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



DURA-INK® 20
Retractable fine bullet tip



Case Quantity 24

Part No.	Color
96575	■ Black
96576	■ Red

DURA-INK® 25
Metal barrel, medium chisel tip



Case Quantity 48

Part No.	Color
96222	■ Red*
96223	■ Black

DURA-INK® 55
Medium chisel tip



Case Quantity 48

Part No.	Color
96528	■ Red*
96529	■ Black
96530	■ Blue
96531	■ Green



Mark Size 1.5mm



Mark Size 3mm or 6mm



Mark Size 1.5mm or 4.5mm

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



DURA-INK® 60

Medium bullet tip



Case Quantity 48

Part No.	Color
96535	Red*
96536	Black
96537	Blue
96538	Green

DURA-INK® 80

Valve-actuated tapered bullet tip



Case Quantity 48

Part No.	Color
96923	Black

Case Quantity 144

96907 Replacement Nibs

DURA-INK® 200

Broad chisel tip



Case Quantity 24

Part No.	Color
96914	Green
96915	Blue
96916	Red*
96917	Black



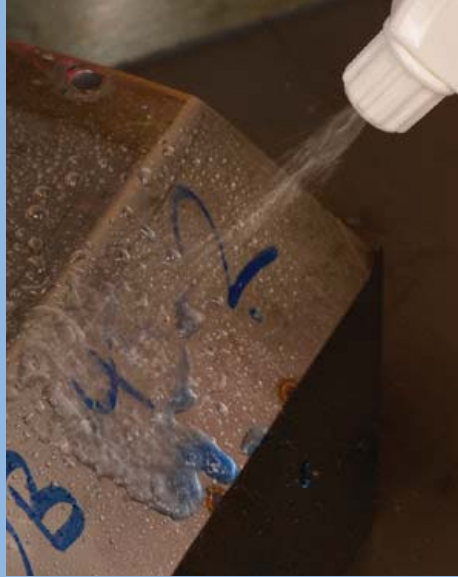
Mark Size 3mm



Mark Size 3mm



Mark Size 9.5mm or 16mm



Mark Size 3mm or 8mm



Mark Size 3mm

DURA-INK® WashAway™ Wash removable ink marker

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

DURA-INK® Dry Erase For temporary marking

- Industrial-strength ink for temporary marking applications remove quickly and easily with dry rag, towel, or eraser
- Marks will not ghost or leave a residue once removed from most non-porous surfaces
- Durable nib will not spread or mush, and will not scratch painted surfaces
- Durable clip-cap and plastic barrel will resist unnecessary wear and breakage



Case Quantity 48

Part No.	Color
96301	■ Pink
96302	■ Blue
96303	■ Green

Case Quantity 48

Part No.	Color
96570	■ Red
96571	■ Black
96572	■ Blue
96573	■ Green



SOLID PAINT MARKERS With the introduction of the original B[®] Paintstik[®] in 1934, Markal[®] changed the face of industrial marking by creating a product that combines the durability of paint with the convenience of a crayon. Since that time, we have continued to build on this innovation by engineering unique marking solutions, making our Paintstiks one of the most diverse and commonly used types of industrial marking tools available.

	B [®]	B-E [®]	B-L [®] / BLW [®]	C [®]	E [®]	F [®]	FAST DRY [®]	M [®] / M-10 [®]	N [®]	P	Zephyr [®]	WS-3/8 [®]	Lacquer-Stik [®]	TYRE MARQUE [®]	Quik Stik [®]	Quik Stik [®] Mini
PERMANENT																
Metals																
Clean, Dry	■		■	■	■	■	■	■	■				■		■	■
Rough	■	■	■		■	■	■	■	■						■	■
Rusty	■	■			■	■	■								■	■
Oily	■															
Wet	■														■	■
Annealing, Heat Treating								■								
Low Corrosion	■															
Plastics																
Clean, Dry	■		■	■	■	■	■	■	■				■		■	■
Rough	■	■	■		■	■	■	■	■						■	■
Oily																
Wet	■														■	■
Rubber																
Clean, Dry	■				■	■	■							■	■	■
Rough	■				■	■	■							■	■	■
Oily																
Wet	■														■	■
Glass, Ceramic																
Clean, Dry	■			■			■								■	■
Rough	■	■					■								■	■
Wet	■														■	■
Brick, Stone																
Clean, Dry	■				■	■	■								■	■
Rough	■	■			■	■	■							■	■	■
Wet	■	■				■	■								■	■
Before Painted Surface																
Bleed Through Paint			■													
No Bleed Through									■							
Painted Surface																
Clean, Dry	■			■	■	■	■									
Rough	■	■			■	■	■									
Oily	■															
Wet	■				■	■									■	■
REMOVABLE																
Non-porous Surfaces																
Clean, Dry										■	■	■				

■ Primary Selection ■ Secondary Selection



Mark Size Standard 17mm,
Fine 9.5mm, King 25.4mm



Mark Size 17mm



Mark Size 17mm

B[®] Paintstik[®]

Multi-purpose permanent marking

- 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
- Weather- and UV-resistant for long-lasting marks

B-E[®] Paintstik[®]

For marking very rough surfaces

- 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

B-L[®] Paintstik[®]

Bleeds through oil-based paints

- Marks bleed through solvent- or oil-based primers or paints
- Used for inspection, coding, layout or assembly operations
- Durable weather- and UV-resistant marks
- To prevent bleeding through the finished coat of paint, seal the marked areas with water-based epoxy paint



Case Quantity 144

Part No.	Color	Size
80220	White*	Standard
80221	Yellow	Standard
80222	Red	Standard
80223	Black	Standard
80224	Orange	Standard
80225	Blue	Standard
80226	Green	Standard
80227	Pink	Standard
80228	Purple	Standard
80229	Brown	Standard
80230	Gray	Standard
80231	Gold	Standard
80232	Aluminum	Standard
80233	Silver	Standard
80821	Fluor. Yellow	Standard
80420	White	Fine
80421	Yellow	Fine
80260	White	King
80250	White	Hex
80251	Yellow	Hex

♦ Marking range: -50°F to 150°F (-46°C to 66°C)



Case Quantity 144

Part No.	Color
80620	White
80621	Yellow
80622	Red
80623	Black

♦ Marking range: -50°F to 150°F (-46°C to 66°C)



Case Quantity 144

Part No.	Color
80725	Blue

♦ Marking range: -50°F to 150°F (-46°C to 66°C)

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



Mark Size 17mm

BL-W® Paintstik®

Bleeds through water-based paints

- Marks bleed through water-based primers or paints
- Used for inspection, coding, layout or assembly operations
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use
- Durable weather- and UV-resistant marks



Case Quantity 144

Part No.	Color
80735	■ Blue



Mark Size 17mm

C® Paintstik®

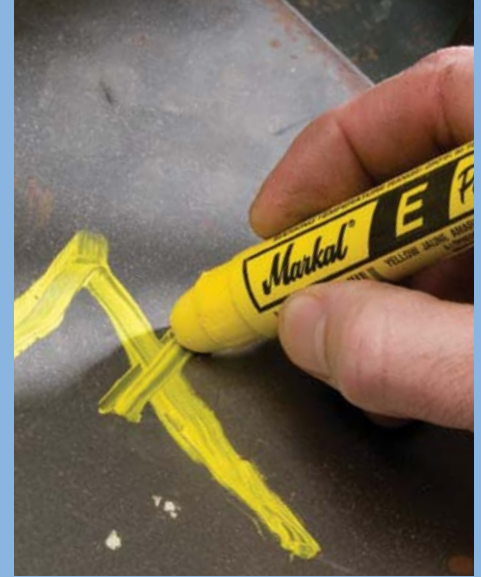
For marking smooth surfaces

- Harder solid paint marker for superior marks on smooth or warmer surfaces
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use
- Weather- and UV-resistant paint for long-lasting marks



Case Quantity 144

Part No.	Color
80820	■ White
80821	■ Yellow



Mark Size Standard 17mm, King 25.4mm

E® Paintstik®

High-intensity color marking

- High-intensity colors for coding, identification, layout, and assembly work
- Durable weather- and UV-resistant marks
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use



Case Quantity 144

Part No.	Color	Size
88620	■ White	Standard
88621	■ Yellow	Standard
88624	■ Orange	Standard
88625	■ Blue	Standard
88640	■ White	King

♦ Marking range: -50°F to 150°F [-46°C to 66°C]

♦ Marking range: 0°F to 150°F [-18°C to 66°C]

♦ Marking range: -50°F to 150°F [-46°C to 66°C]

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



Mark Size 17mm



Mark Size Standard 17mm, Fine 9.5mm



Mark Size 17mm

F[®] Paintstik[®] Fluorescent color marking

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

FAST DRY[®] Paintstik[®] Fast drying solid paint crayon

- Marks dry within 5 minutes on wet, oily, dry, and rough surfaces
- Quick-drying marks allow for immediate handling without smearing
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use

M[®] and M-10 Paintstik[®] For annealing and heat-treating

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



Case Quantity 72

Part No.	Color
82831	Yellow
82832	Red
82834	Orange
82835	Blue
82836	Green
82842	Pink



Case Quantity 72

Part No.	Color	Size
82720	White	Standard
82721	Yellow	Standard
82722	Red	Standard
82730	White	Fine
82731	Yellow	Fine



Case Quantity 144

Part No.	Color
M	
81920	White
81921	Yellow
81922	Red
81923	Black
M-10	
82020	White

◆ Marking range: -50°F to 150°F (-46°C to 66°C)

◆ Marking range: -50°F to 150°F (-46°C to 66°C)

◆ Marking range: -50°F to 150°F (-46°C to 66°C)



Mark Size 17mm

N[®] Paintstik[®]

Marks will not show through top coat of paint

- 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



Case Quantity 144

Part No.	Color
82120	White
82121	Yellow
82123	Black



Mark Size 17mm

P Paintstik[®]

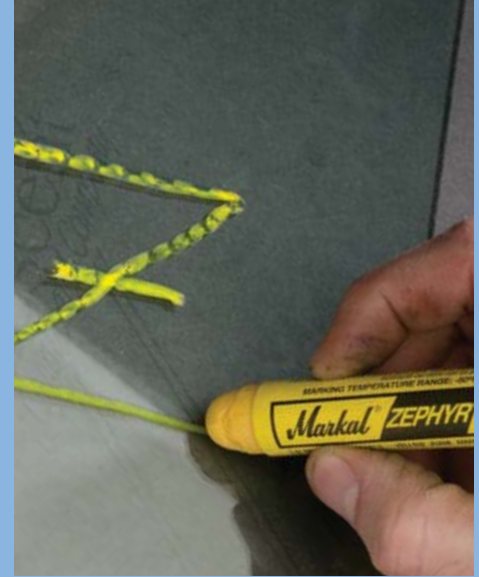
Marks are removed in the galvanizing process

- 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



Case Quantity 144

Part No.	Color
83420	White



Mark Size 17mm

ZEPHYR[®] Paintstik[®]

Wear-resistant, water-soluble

- 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



Case Quantity 144

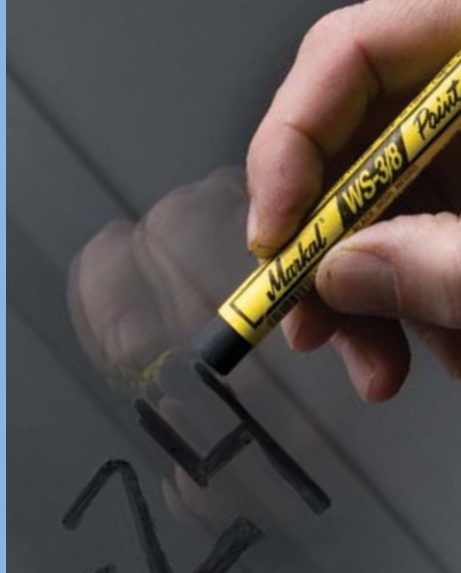
Part No.	Color
51321	Yellow

♦ Marking range: 0°F to 150°F [-18°C to 66°C]

♦ Marking range: -50°F to 150°F [-46°C to 66°C]

♦ Marking range: -50°F to 150°F [-46°C to 66°C]

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



Mark Size 9.5mm

WS-3/8® Paintstik®

Water-soluble, removable

- 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



Case Quantity 144

Part No.	Color
82420	White
82421	Yellow
82422	Red
82423	Black

◆ Marking range: -50°F to 150°F (-46°C to 66°C)



Lacquer-Stik®

For filling-in stamped or engraved lines

- 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
- No mess or waste, eliminates dripping paint
- Mark temperature resistance: up to 500°F (260°C)
- Meets U.S.A. federal specification TT-F-325a I and MIL-STD 171, Finish No. 30.1.1, Type I



Case Quantity 144

Part No.	Color
51120	White
51121	Yellow
51122	Red
51123	Black
51131	Gold

◆ Marking range: -50°F to 150°F (-46°C to 66°C)



Mark Size 12.7mm

TYRE MARQUE®

Temporary tire marking

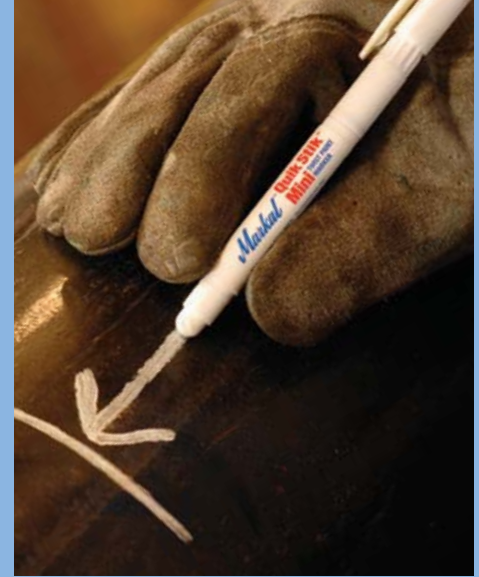
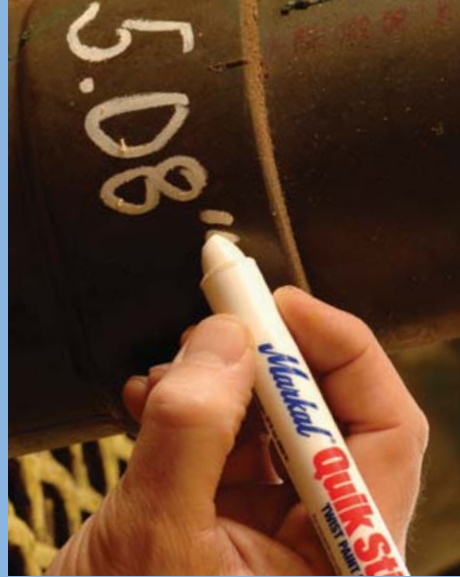
- Smooth marking on rough or dirty surfaces for bold, visible marks
- Marks easily on wet or cold rubber surfaces



Case Quantity 144

Part No.	Color
51420	White
51421	Yellow
51422	Red

◆ Marking range: -20°F to 130°F (-29°C to 54°C)



Quik Stik® Fast-drying solid paint in twist-up holder

- 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



Case Quantity 72

Part No.	Color
61049	Red
61050	Black
61051	White
61053	Yellow
61069	Green
61070	Blue
61071	Orange
61073	Purple

Quik Stik® Mini Compact solid paint in twist-up holder

- Fast-drying, vibrant paint marks dry in 5 to 7 minutes
- Compact plastic holder with clip-cap stores easily in pocket and keeps hands and clothing clean
- Marks on virtually any surface: wet, smooth, rough, or hot
- Weather- and UV-resistant paint for long-lasting marks
- Solid paint marker advances and retracts by turning twist-up knob
- 2-Butoxyethanol free formula to reduce health risks

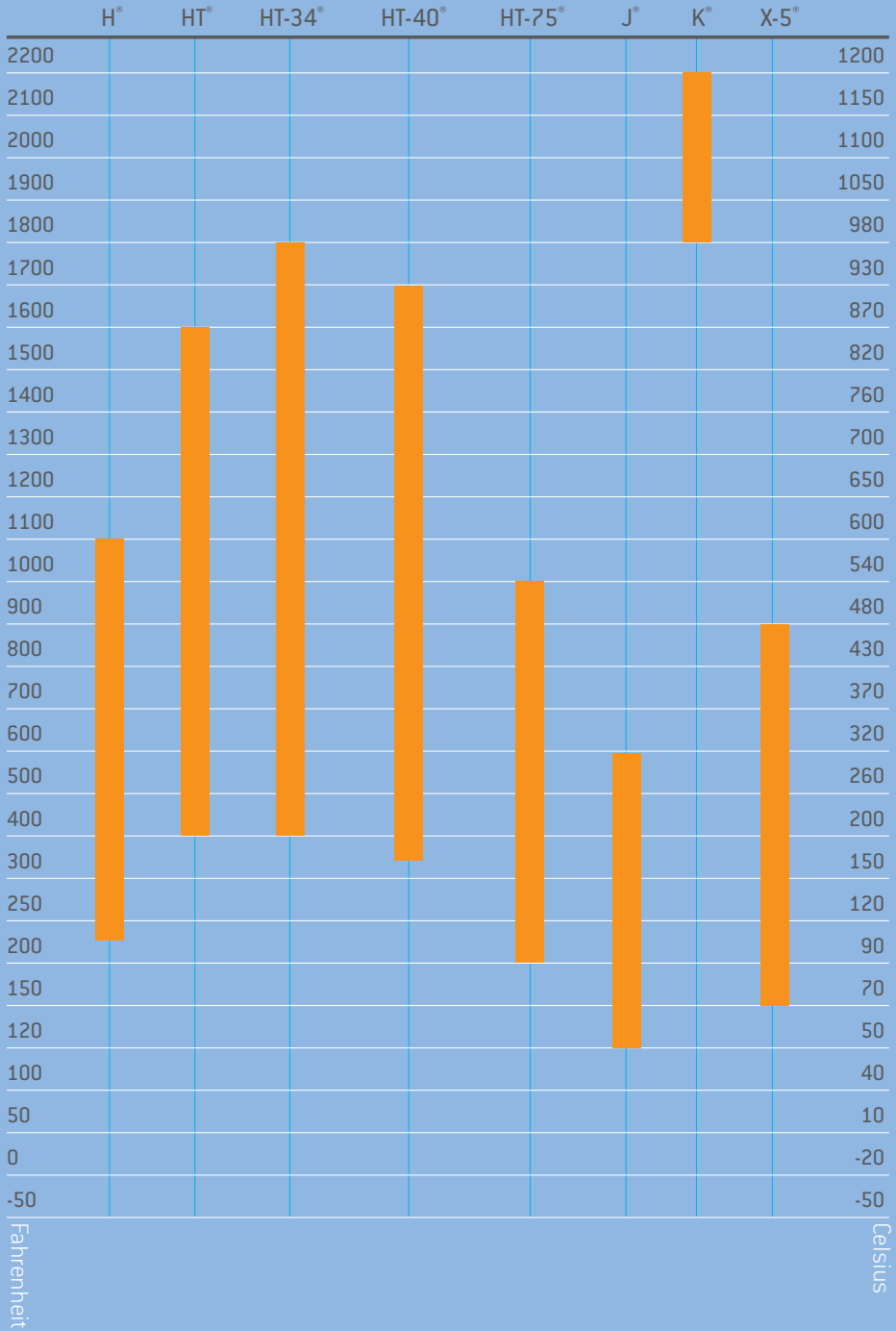


Case Quantity 48

Part No.	Color
61126	White
61127	Yellow
61128	Red
61129	Black

SOLID PAINT MARKERS-HOT SURFACE 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 120 °F (49 °C) to 2200 °F (1204 °C), these markers are ideal for use on coils, billets, bars, ingots, and plates.





- Fast-drying marks are permanent and will not run, char, flow, discolor, peel or crack
- Lasts longer, up to 3X the writing life of hot chalk

Industry Uses

Forge and casting foundries
 Steel mills and warehouses
 Aluminum mills
 Smelting mills
 Glass industry

Surface Uses

Coils
 Billets and bars
 Castings and pigs
 Ingots and plates
 Rails and beams
 Glass



Mark Size 9.5mm

Mark Size Standard 9.5mm, King 19mm

H^o Paintstik[®]
 225°F to 1100°F
 (107°C to 593°C)



Case Quantity 144

Part No.	Color
81020	White
81021	Yellow
81022	Red
81023	Black
81025	Blue
81026	Green

HT^o Paintstik[®]
 400°F to 1600°F
 (204°C to 871°C)



Case Quantity 144

Part No.	Color	Size
81220	White	Standard
81221	Yellow	Standard
81222	Red	Standard
81223	Black	Standard
81225	Blue	Standard
81226	Green	Standard
81210	White	King





Mark Size Standard 9.5mm, King 19mm

Mark Size 19mm

Mark Size 19mm

HT-34® Paintstik®
 400°F to 1800°F
 (204°C to 982°C)



Case Quantity 144

Part No.	Color	Size
84720	■ White	Standard
84710	■ White	King

HT-40® Paintstik®
 350°F to 1700°F
 (177°C to 927°C)



Case Quantity 144

Part No.	Color
81610	■ White

HT-75® Paintstik®
 200°F to 1000°F
 (93°C to 538°C)



Case Quantity 144

Part No.	Color
84820	■ White





Mark Size 9.5mm

Mark Size 19mm

Mark Size 9.5mm

J[®] Paintstik[®]
 120°F to 600°F
 (49°C to 316°C)



Case Quantity 144

Part No. Color
 81720 ■ White

K[®] Paintstik[®]
 1800°F to 2200°F
 (982°C to 1204°C)



Case Quantity 144

Part No. Color
 81820 ■ White

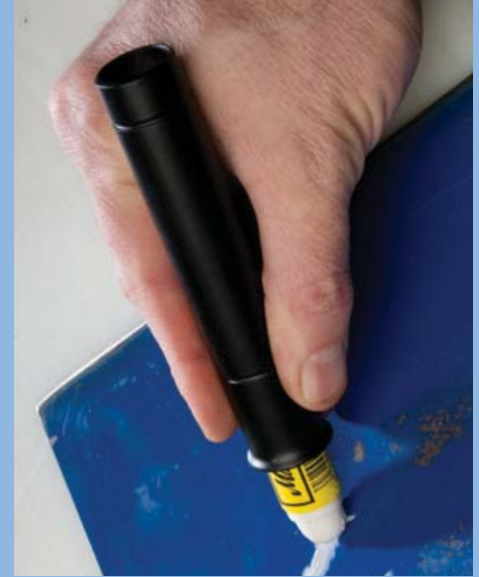
X-5[®] Paintstik[®]
 150°F to 900°F
 (66°C to 482°C)



Case Quantity 144

Part No. Color
 82520 ■ White
 82521 ■ Yellow





100 Wooden holder

- 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°, J°, X-5°



Case Quantity 12

Part No.	Length
85500	10.2cm

101 Metal holder

- Heavy-duty metal holder for all standard size solid paint markers prevents unwanted breaking during use for longer work life
- Easy, push-up advance design for quick use
- Engineered for the following Markal® standard 1.7cm size solid paint crayons: B°, B-E°, B-L°, BL-W°, C°, E°, F°, M°, M-10°, N°, O-10°, P°, Zephyr®



Case Quantity 12

Part No.	Length
85000	12.7cm



102 Adjustable metal holder

- Durable metal holder promotes long work-life for all standard 1.7cm 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°, C°, E°, F°, M°, M-10°, N°, O-10°, P°
- For safer distance marking, 0.6m and 0.9m extensions are available for special order



Case Quantity 12

Part No.	Length
85100	15.2cm



102K Long metal holder

- Long holder length protects the user from dangerous heat
- Fast button advancing for high production, even with heavy-duty gloves
- Designed for use with the following Markal® hot surface solid paint markers: K°, HT-75°, HT° King size, HT-34° King size
- For safe distance marking, 0.6m and 0.9m extensions are available for special order



Case Quantity 12

Part No.	Length
85200	18.4cm



106 Dual holder for lumber crayons and carpenter pencils

- Dual design for easy use of two markers for quick marking on multiple surfaces
- Easy-to-adjust locking rings securely hold markers
- Bright yellow color makes for easy on-the-job identification
- Designed for use with the following Markal® markers: lumber crayons 200, 500, Pro-EX®, and carpenter pencils



Case Quantity 12

Part No.	Length
85401	12.7cm



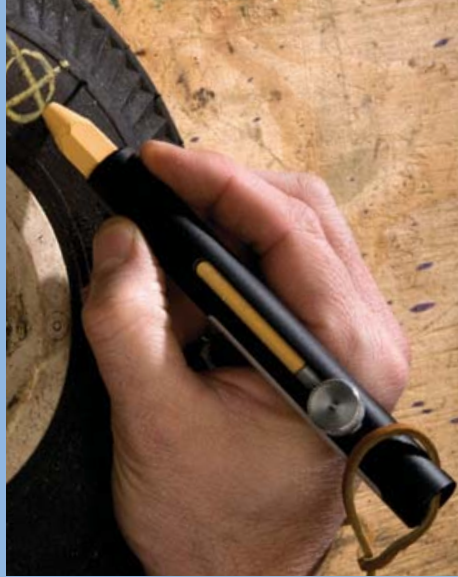
107 Metal holder for small diameter solid paint crayons

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



Case Quantity 12

Part No.	Length
85300	14cm



108 Metal holder for hex-shaped markers

- 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 1.3cm Markal® hex-shaped markers: lumber crayons 200, 500, Pro-EX®, Optimark®, and Tyre Marque®
- For safe distance marking, 0.6m and 0.9m extensions are available for special order



Case Quantity 12

Part No.	Length
85400	15.2cm



109 Peterson Wood holder for hex-shaped lumber and timber markers

- Adjustable locking ring keeps markers in place during use
- Comfortable leather wrist strap fits over gloves and reduces dropping
- Designed for use with the following Markal® markers: SCAN-IT® Plus 1.3cm hex and other hex-shaped Markal markers
- For extended marking distance, a 0.9m extension is available for special order



Case Quantity 12

Part No.	Length
85490	12.7cm



111 Extra-long metal holder

- 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®, J®, X-5®
- For safe distance marking, 0.6m and 0.9m extensions are available for special order



Case Quantity 12

Part No.	Length
85700	28cm



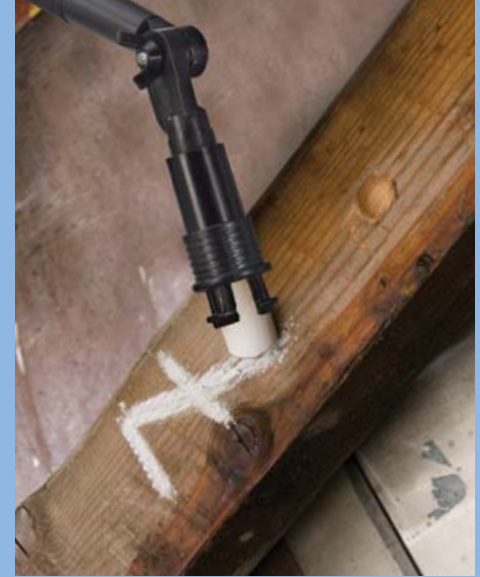
Prograde® Heavy-duty plastic holder

- Front of holder is flexible and cushions the hand from shock, resulting in less hand fatigue
- Strong composite plastic design helps prevent breakage
- Easy, push-button advance for quick use on the jobsite
- Sturdy leather wrist strap helps prevent dropping
- Designed for use with the following Markal® lumber and timber markers: ULTRASCAN®, SCAN-IT® Plus 17mm, and other standard size Paintstik® markers



Case Quantity 12

Part No.	Length
85496	12.7cm



Back Saver Adjustable chalk holder

- Made of high-strength aluminum alloy for added durability
- Adjustable fitting can hold 2.54cm diameter railroad chalk
- Adjustable angle from straight to 90°



Case Quantity 15

Part No.	Length
85600	66cm -101cm Telescope capability

GENERAL PURPOSE MARKERS 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.



	TRADES-MARKER®	TRADES-MARKER® WS	China Marker	Carpenter's Pencil	Chalk
PERMANENT					
Metals					
Clean, Dry	■		■	■	■
Rough	■		■		■
Rusty	■		■		■
Low Corrosion	■				
Plastics					
Clean, Dry	■		■	■	■
Rough	■		■		■
Rubber					
Clean, Dry	■		■		■
Rough	■		■		■
Glass, Ceramic					
Clean, Dry	■		■		
Rough	■		■		
Brick, Stone					
Clean, Dry	■		■		■
Rough	■		■		■
Painted Surface					
Clean, Dry	■		■		
Rough	■		■		
Tile, Polished Stone					
Clean, Dry	■		■	■	■
REMOVABLE					
Non-porous Surfaces					
Clean, Dry		■			

■ Primary Selection ■ Secondary Selection



Mark Size 3mm

TRADES-MARKER® Mechanical grease pencil

- 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



Part No.	Color	Case Quantity
Blister Card: 1-holder/5 refills		
96000	Assorted	24
Starter Pack: 1-holder/12 refills		
96130	■ White	6
96131	■ Yellow	
96132	■ Red*	
96133	■ Black*	
96137	■ Orange	
Refill Pack: 12 refills		
96240	■ White	12
96241	■ Yellow	
96242	■ Red*	
96243	■ Black*	
96247	■ Orange	
Bulk Pack: 1-holder/1 refill		
96250	■ White	48
96251	■ Yellow	
96253	■ Red*	
96252	■ Black*	
96257	■ Orange	



Mark Size 3mm



Mark Size 3mm



Mark Size 3mm

TRADES-MARKER® WS

Water-removable,
mechanical grease pencil

- Marks can be easily wiped away with water, ideal for quality control and temporary marking needs
- Great for many surfaces including: smooth, rough, rusty, or dirty surfaces
- Marker refills eliminate mess and paper waste of grease pencils, saving time and money
- Durable plastic holder helps prevent breakage and keeps hands and clothing clean
- Push-button advancing makes for easy, one-handed use



Part No.	Color	Case Quantity
Starter Pack: 1-holder/12 refills		
96190	White	6
96191	Yellow	
96192	Black	
96193	Red	
Refill Pack: 12 refills		
96180	White	12
96181	Yellow	
96182	Black	
96183	Red	
Bulk Pack: 1-holder/1 refill		
96170	White	48
96171	Yellow	
96172	Black	
96173	Red	

China Marker

Paper-wrapped marker,
grease pencil

- 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

Carpenter's Pencil

Precise wood and
concrete marking

- Economical pencil for clean, accurate marks on wood, concrete and other surfaces
- Flat marker design prevents rolling on work tables
- Available in soft, medium, and hard lead to fit the surface needs
- Length: 17.8cm



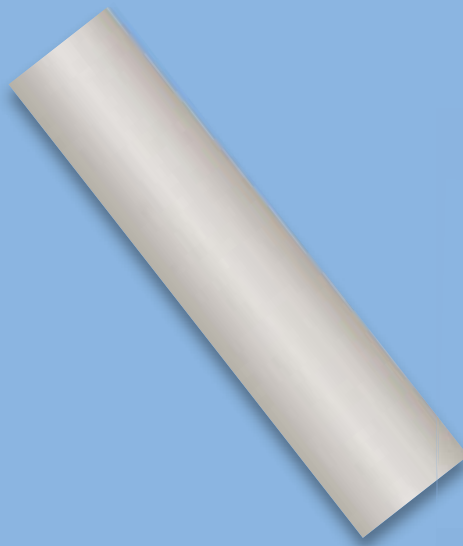
Part No.	Lead
Case Quantity 144	
96927	Hard
96928	Medium
96929	Soft



Carpenter's Chalk

For temporary line marking

- Advanced color and opacity for improved mark visibility
- Finer in texture for cleaner, more durable marks
- Saves time and money compared to refillable reels



Railroad Chalk

Wide, temporary marks

- Large diameter chalk makes bold, wide temporary marks that are easy to read on virtually any surface
- Wide, tapered shape is easy to hold, even with gloves
- Length: 10.2cm



Polishing Block Chalk

For roller grinding and extrusion

- Finer in texture and richer in color
- Offered in two sizes: Large 6.4 cm x 11.4cm x 22.9cm and Small 3.8cm x 5cm x 22.9cm



Case Quantity 144

Part No.	Color
80530	White
80531	Blue

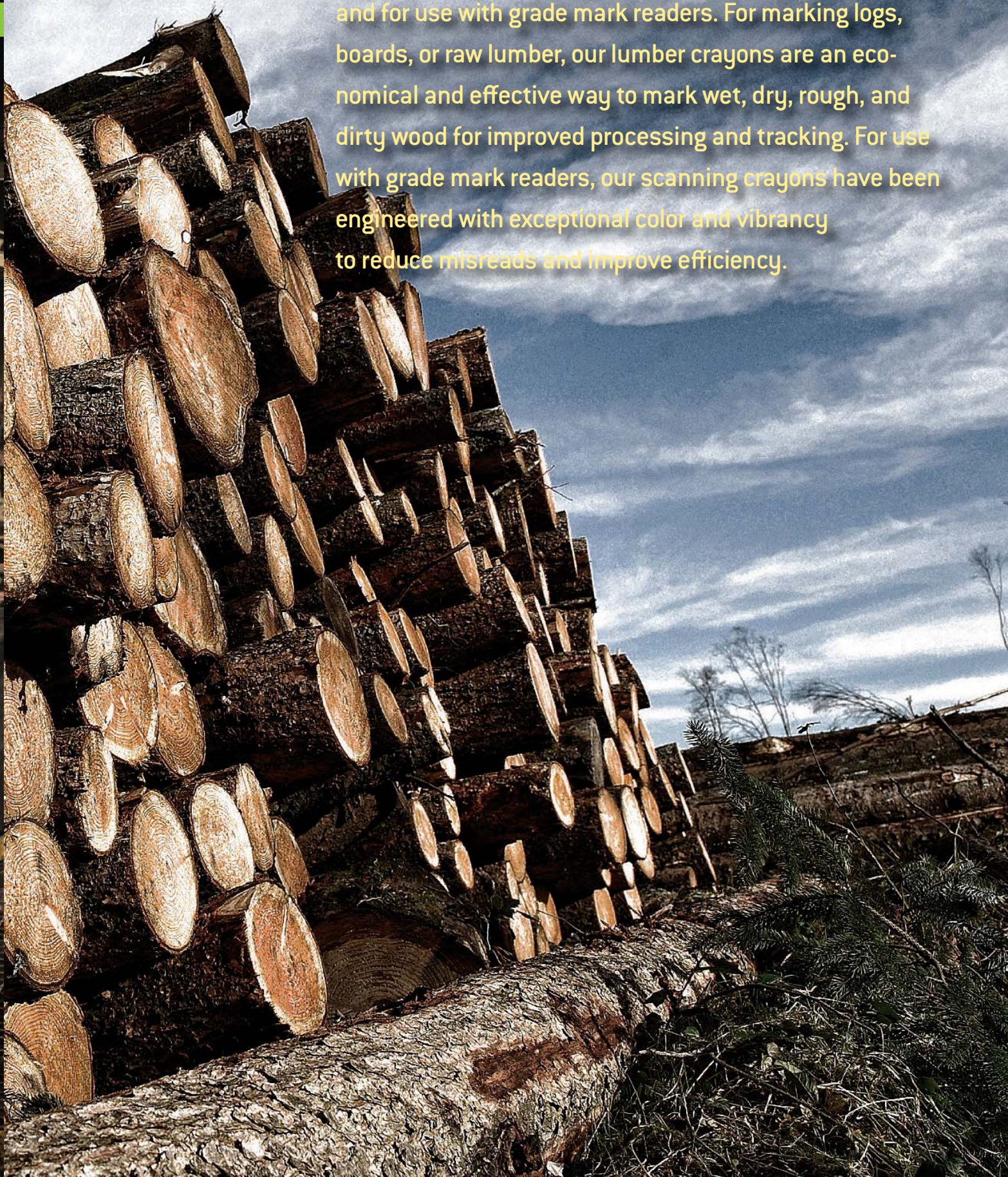
Case Quantity 576

Part No.	Color
80500	White
80501	Yellow
80502	Red
80505	Blue
80506	Green
80507	Orange
80508	Sky Blue
80509	Cherry
80510	Pink



Part No.	Color	Case Quantity
Large Block		
80540	White	12
80541	Red	
80542	Blue	
Small Block		
80543	White	48

LUMBER AND TIMBER MARKERS Whether marking raw materials in the field or in plant for processing, Markal has a marker engineered for use on almost any wood surface and for use with grade mark readers. For marking logs, boards, or raw lumber, our lumber crayons are an economical and effective way to mark wet, dry, rough, and dirty wood for improved processing and tracking. For use with grade mark readers, our scanning crayons have been engineered with exceptional color and vibrancy to reduce misreads and improve efficiency.





Mark Size 12.7mm



Mark Size 12.7mm



Mark Size 12.7mm

Lumber Crayon 200 Economical, wax-based

- 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

Lumber Crayon 500 Clay-based

- Known in construction trades as “keel” or layout chalk
- Clay-based formula provides longer marking mileage
- Special harder formula allows for superior marking in hot climates
- Available in fluorescent colors for high-visibility marks

Pro-EX® Premium, clay-based

- Stronger formula for reduced breakage and longer marking life
- Superior performance on wet, frozen, or treated wood
- Clay-based formula for smooth, fast marking



Case Quantity 144

Part No.	Color
80350	White
80351	Yellow
80352	Red
80353	Black
80354	Orange
80355	Blue
80356	Green
80358	Purple



Case Quantity 144

Part No.	Color
80320	White
80321	Yellow
80322	Red
80323	Black
80324	Orange
80325	Blue
80326	Green
80328	Purple
80451	Fl. Yellow
80452	Fl. Red
80454	Fl. Orange
80462	Fl. Pink

Case Quantity 144

Part No.	Color
80379	Brown
80380	White
80381	Yellow
80382	Red
80383	Black
80384	Orange
80385	Blue
80386	Green



Mark Size 12.7mm



Mark Size 17mm

OPTIMARK®

For automated cut-off saws

- Formulated to minimize color transfer to machinery, reducing work downtime and clean-up
- Lasts longer - up to 4X the writing life compared to ordinary crayons and fluorescent markers
- Six visually distinct fluorescent colors identifies multiple operators

ULTRASCAN®

High-performance crayon 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
- 27 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



Case Quantity 144

Part No.	Color
82742	Red
82743	Orange
82744	Pink
82745	Red Orange
82746	Yellow Orange
82747	Burgandy



Case Quantity 72

Part No.	Color
82430	Brick Red 11
82431	Magenta 21
82432	Red Orange 31
82433	Orange 41
82434	Berry 51
82435	Lime 61
82436	Burgundy 12
82439	Dark Orange 42
82440	Brown 52
82441	Green 62
82442	Rust 13
82446	Yellow Orange 53
82447	Yellow 63

Case Quantity 72

Part No.	Color
82450	Blue Green 70
82457	Light Blue 81
82452	Royal Blue 80
82451	Bright Pink 91
82459	Bright Orange 44
82461	Spring Green 71
82462	Dark Brown 55
82463	Golden Rod 54
82466	Purple 24
82467	Bright Red 34
82468	Neon Orange 103
82469	Tan 45
82470	Tangerine 03



Mark Size 17mm



SCAN-IT® Plus For grade marking

- 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 17mm, hex shape 13mm

Fluorescent Scanning Chalk Rich and highly- visible marks

- Long-lasting marks on wet or frozen lumber and timber
- Finer in texture and richer in color
- Better lay-down capability



Case Quantity 144

Part No.	Color	Hardness/Size
82630	Blue Moon	Soft/Hex
82640	Pink Lightning	Soft/Hex
82331	Orange Sherbet	Med/Hex
82340	Pink Lightning	Med/Hex
82341	Emerald Green	Med/Hex
82231	Orange Sherbet	Hard/Hex
82232	Watermelon Red	Hard/Hex
82234	Grasshopper Green	Hard/Hex
82635	Blue Moon	Soft/Round
82636	Orange Sherbet	Soft/Round
82637	Watermelon Red	Soft/Round
82638	Red Cedar	Soft/Round
82639	Grasshopper Green	Soft/Round
82645	Pink Lightning	Soft/Round
82646	Emerald Green	Soft/Round
82648	Russet Brown	Soft/Round
82658	Lime Green	Soft/Round
82659	Lemon Yellow	Soft/Round

Case Quantity 144

Part No.	Color	Hardness/Size
82335	Blue Moon	Med/Round
82336	Orange Sherbet	Med/Round
82337	Watermelon Red	Med/Round
82338	Red Cedar	Med/Round
82339	Grasshopper Green	Med/Round
82345	Pink Lightning	Med/Round
82346	Emerald Green	Med/Round
82347	Pumpkin	Med/Round
82348	Russet Brown	Med/Round
82355	Pink Marble	Med/Round
82358	Lime Green	Med/Round
82359	Lemon Yellow	Med/Round
82235	Blue Moon	Hard/Round
82236	Orange Sherbet	Hard/Round
82237	Watermelon Red	Hard/Round
82238	Red Cedar	Hard/Round
82239	Grasshopper Green	Hard/Round
82245	Pink Lightning	Hard/Round
82246	Emerald Green	Hard/Round
82247	Pumpkin	Hard/Round
82248	Russet Brown	Hard/Round
82255	Pink Marble	Hard/Round
82258	Lime Green	Hard/Round



Case Quantity 144

Part No.	Color
80560	Fluorescent Magenta
80561	Fluorescent Orange
80562	Fluorescent Yellow Green
80564	Fluorescent Green
80565	Fluorescent Purple



WELDING MARKERS 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.



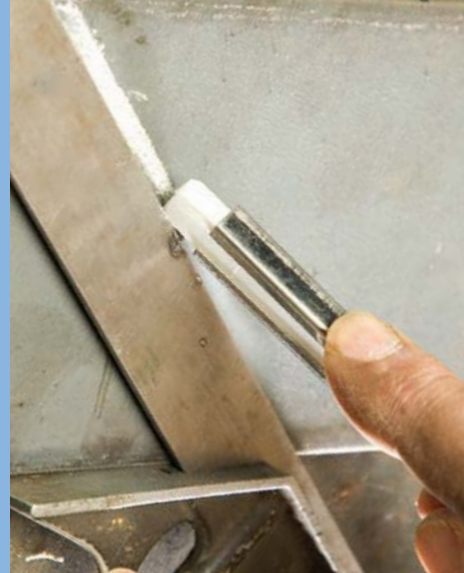
Silver-Streak®

For welding, metal layout and fabrication

- 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, mechanical holder prevents stick breakage and features a convenient, built-in sharpener and pocket clip for easy storage



Part No.	Pack	Case Quantity
Round		
96006	1 Holder/1 Lead	24
96107	1 Holder/6 Leads	24
96007	Refill/6 Pack	24
Flat*		
96004	1 Holder/1 Lead	24
96017	10 Holders	12
96018	Refill/25 Pack	24
96002	Refill/100 Pack	24



Red-Riter®

For aluminum, bright metals

- 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
- Rugged metal holder prevents stick breakage and includes handy pocket clip for easy storage when not in use



Part No.	Pack	Case Quantity
Flat*		
96005	1 Holder/1 Lead	24
96019	Refill/25 Pack	24
Holder		
96017	10 Holders	12

Silver-Streak® and Red-Riter® Welders Pencils

For metal layout and fabrication

- 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
- High-strength, hex-shaped pencil reduces barrel roll unlike competitive brands
- Pre-sharpened



Case Quantity 72	
Part No.	Color
96100	Red
96101	Silver

Soapstone

Temporary marking

- Temporary marks can be easily removed
- Marks will not contaminate weld or damage metal surface
- Available in three easy to hold shapes: flat, round and square
- Holders for flat and round shapes reduce breakage

Part No.	Shape	Case Quantity
80129	Flat	432
80130	Round	432
80131	Square	432
Holder		
80140	Flat	12
80141	Round	12

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

TEMPERATURE INDICATING PRODUCTS Whether used as part of a manufacturing process, welding, metal fabrication, or in quality control to help prevent damage caused by high temperatures, accurate temperature indication is a vital part of almost all industrial environments. For over 80 years, we have been a leading and trusted name in fast, reliable, and accurate temperature indication products for almost any job.





Tempilstik®

Fast, accurate surface temperature indicator

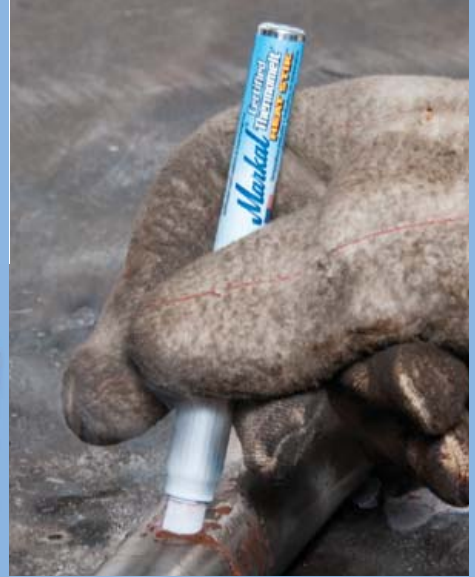
- 116 temperatures available from 100°F(38°C) to 2000°F(1093°C)
- Stick instantly melts at designated temperature for easy and immediate visual inspection.
- Calibration-free with 100% reliability
- Comply with preheat temperature requirements of AWS D1.1, ASME Code Sec. I, III and VIII, ANSI/ASME Code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

Case Quantity 10

Part No.	°F	°C
28000	100	38
28300	104	40
28002	109	43
28004	119	48
28301	112	50
28005	125	52
28302	131	55
28303	140	60
28006	150	66
28304	158	70
28007	163	73
28305	167	75
28008	169	76
28009	175	79
28306	176	80
28010	182	83
28307	185	85
28011	188	87
28308	194	90
28012	200	93
28309	203	95
28013	206	97
28310	212	100
28014	213	101
28015	219	104
28016	225	107
28312	230	110
28313	239	115
28314	248	120
28019	250	121
28020	256	124
28315	257	125
28021	263	128
28316	266	130
28022	269	132
28023	275	135
28317	284	140
28024	288	142
28025	294	146
28026	300	149
28318	302	150
28027	306	152
28319	311	155
28028	313	156
28320	320	160
28029	325	163
28321	329	165
28322	338	170
28030	344	173
28323	347	175
28031	350	177
28324	356	180
28032	363	184
28325	374	190
28033	375	191
28326	383	195
28034	388	198
28327	392	200
28035	400	204

Case Quantity 10

Part No.	°F	°C
28328	410	210
28036	413	212
28329	419	215
28037	425	218
28330	428	220
28311	437	225
28332	446	230
28039	450	232
28333	455	235
28040	463	239
28041	475	246
28336	482	250
28042	488	253
28043	500	260
28338	518	270
28044	525	274
28339	536	280
28044	525	274
28339	536	280
28045	550	288
28340	554	290
28341	572	300
28046	575	302
28047	600	316
28342	608	320
28048	650	343
28343	662	350
28049	700	371
28050	750	399
28345	752	400
28051	800	427
28052	850	454
28347	860	460
28053	900	482
28349	932	500
28055	950	510
28056	1000	538
28057	1022	550
28350	1040	560
28058	1050	566
28059	1100	593
28351	1112	600
28060	1150	621
28352	1157	625
28061	1200	649
28062	1250	677
28355	1292	700
28063	1300	704
28064	1400	760
28065	1450	788
28066	1500	816
28067	1550	843
28068	1600	871
28069	1650	899
28070	1700	927
28072	1800	982
28073	1900	1038
28074	1950	1066
28075	2000	1093



Tempstik® Test Kit

Temperature indicator and reference kit

- 20 Tempstik indicators systematically spaced between 125°F(52°C) -800°F(427°C)
- Stick melts at designated temperature for easy and immediate visual inspection with +/-1% accuracy
- Includes Preheating and Basic Guide to Ferrous Metallurgy charts for quick reference of critical temperatures
- Calibration free with 100% reliability



Case Quantity 20

Part No.	Description
28600	Test Kit/20 Sticks

Certified Thermomelt®

Nuclear pre-certified

- Certified to meet the following U.S.A. and international specifications:
 - 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 for quick, accurate reference
- Protective holder, shirt-clip and adjustment ring prevents breakage and improves handling



Case Quantity 12

Part No.	°F	°C
89100	100	38
89125	125	52
89150	150	66
89175	175	79
89200	200	93
89225	225	107
89250	250	121
89275	275	135
89300	300	148
89325	325	163
89350	350	177
89375	375	191
89400	400	204
89425	425	218
89450	450	232
89475	475	246
89500	500	260
89525	525	274
89550	550	288
89650	650	343

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



Thermomelt® Accurate surface temperature indicating stick

- 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
- Meets welding codes: AWS D1.1, ANSI/ASME Code B32.1 & B31.3, ASME Code Sec. I, III, and VII, NIST Traceable

Case Quantity 12

Part No.	°F	°C
86400	100	38
86409	109	43
86418	113	45
86427	119	48
86436	125	52
86445	131	55
86454	138	59
86463	150	66
86472	163	73
86481	175	79
86490	182	83
86499	188	87
86508	194	90
86517	200	93
86522	206	97
86526	213	101
86535	219	104
86544	225	107
86553	238	114
86562	250	121
86569	256	124
86571	263	128
86580	269	132
86589	275	135
86598	282	139
86607	288	142
86616	294	146
86625	300	149
86634	306	152
86643	313	156
86652	319	159
86661	325	163
86670	331	166
86679	338	170
86688	344	173
86697	350	177
86706	363	184
86715	375	191
86724	388	198
86733	400	204
86742	413	212
86751	425	218
86760	438	225
86769	450	232
86778	463	239
86787	475	246
86796	488	253
86805	500	260
86814	525	274
86823	550	288
86832	575	302
86841	600	316
86850	625	339
86859	650	343
86868	700	371
86877	750	399
86886	800	427
86895	850	454
86904	900	482
86922	950	510

Case Quantity 12

Part No.	°F	°C
86931	1000	538
86940	1022	550
86949	1050	565
86958	1100	593
86967	1150	621
86976	1200	649
86985	1250	677
86994	1300	704
87003	1350	732
87012	1400	760
87021	1425	774
87030	1450	788
87039	1480	804
87048	1500	816
87057	1550	843
87066	1600	871
87075	1650	899
87084	1700	927
87093	1750	954
87102	1800	982
87111	1850	1010
87120	1900	1038
87129	1950	1066
87138	2000	1093
87147	2050	1121
87156	2100	1149
87165	2150	1177
87174	2200	1204

Case Quantity 12

Part No.	Celcius	°C
86402		50
86404		75
86401		100
86408		125
84664		150
86410		175
86516		200
86405		225
86563		250
86407		275
86626		300
86698		350
86734		400
86770		450
86807		500
86824		550
86842		600
86860		650
86870		700
86878		750
86887		800
86896		850
86905		900
86923		950
86932		1000
86950		1050
86960		1100
86968		1150
86977		1200



Tempilaq® Temperature Indicating Liquid

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



Part No.	°F	°C
Sold as each		
Pint		
24598-Green Label Thinner		
Sold as each		
Quart		
24550	175	79
24552	325	163
24554	375	191
24555	475	246
24557	700	371
24558	750	399
24560	850	454
24561	900	482
24562	950	510
24564	1050	566
24565	1100	593
24566	1150	621
24567	1200	649

Part No.	°F	°C
Sold as each		
2 oz		
24400	175	79
24401	200	93
24402	225	107
24403	250	121
24404	275	135
24405	300	149
24406	313	156
24407	325	163
24408	350	177
24409	363	184
24410	375	191
24411	400	204
24412	425	218
24413	450	232
24414	475	246
24415	488	253
24416	500	260
24417	525	274
24418	550	288
24419	575	302
24420	600	316
24421	650	343
24422	700	371
24423	750	399
24424	800	427
24425	850	454
24426	900	482
24427	950	510
24428	1000	538
24429	1022	550
24430	1050	566
24431	1100	593
24432	1150	621
24433	1200	649
24434	1250	677
24435	1300	704
24436	1400	760
24437	1450	788
24438	1500	816
24439	1600	871
24440	1700	927
24441	1800°	982
24442	1900	1038
24597-Green Label Thinner		

Temp-Alarm® Time/Temperature Signaling Paint

- Paint will irreversibly transition colors within 5 minutes at stated temperature
- Permanent record for inspection and quality control
- Highly identifiable color change for improved monitoring



Part No.	°F	°C
Sold as each		
1 Gallon		
24601	310	154
24603	490	254
Sold as each		
5 Gallon		
24600	310	154
24602	490	254



Estik™ Electronic Surface Thermometer

- 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



Sold as each

Part No.	Description
24290	Electronic Tempilstik Kit
24251	Electronic Tempilstik Kit- NIST Certified
24252	Thermocouple Band Replacement



IRT-16 Infrared Thermometer

- Temperature measurement range between -76°F(-60°C)-1157°F(-625°C) 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



Sold as each

Part No.	Description
24200	IRT-16
24201	IRT-16 - NIST Certified
24202	K-Probe Thermocouple

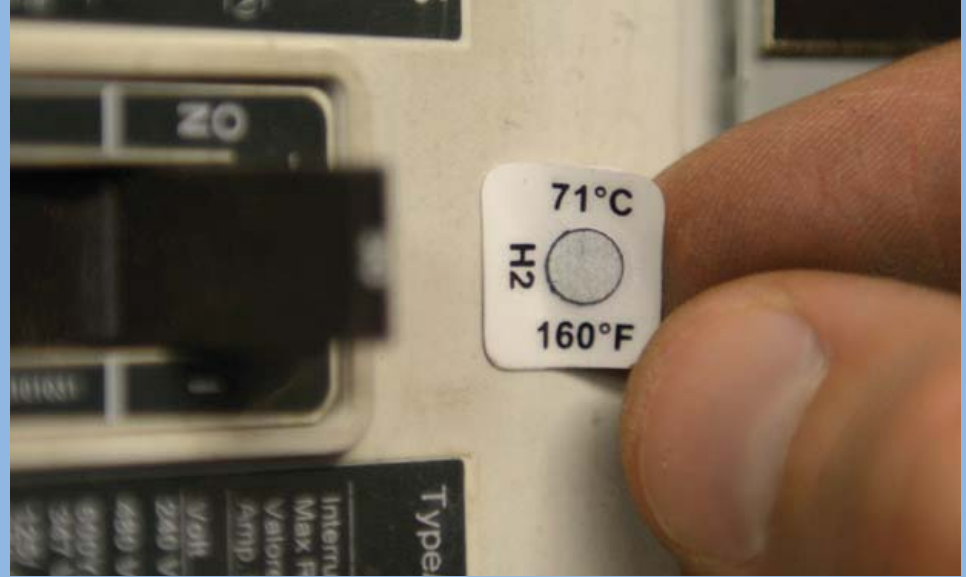


TEMPERATURE INDICATING LABELS are an economical temperature indication solution that can be easily applied to almost any surface for later monitoring, making it ideal for preventative maintenance, logistics, quality control, manufacturing, and many other applications.





Label Size 23mm x 45mm



Label Size 12mm x 13mm

Series 4 Tempilabel® Four-Level, Irreversible

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

Series 21 Tempilabel® Single-Level, Irreversible

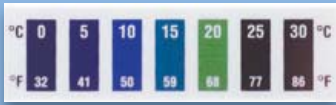
- Excellent accuracy to +/- 2% of the Fahrenheit rating
- Temperature range from 100°F (38°C)-500°F (260°C)
- Single-way color change
- Permanent record for inspection and quality control
- Calibration-free
- Oil-, water- and steam-resistant



Part Number	Temperature Range				
Pack of 10 26700	°F	100	110	120	130
	°C	38	43	49	54
26709	°F	120	130	140	150
	°C	49	54	60	66
26701	°F	130	140	150	160
	°C	54	60	66	71
26702	°F	170	180	190	200
	°C	77	82	88	93
26703	°F	190	200	210	220
	°C	88	93	99	104
26704	°F	220	230	240	250
	°C	104	110	116	121
26705	°F	330	340	350	360
	°C	166	171	177	182
26706	°F	125	150	175	200
	°C	52	66	79	93
26707	°F	100	150	200	250
	°C	38	66	93	121
26708	°F	200	250	300	350
	°C	93	121	149	177



Part Number	Temp. Range	Part Number	Temp. Range
Pack of 210 26250	°F 100	Roll of 1,000 26275	°F 220
	°C 38		°C 104
26251	°F 110	26276	°F 230
26252	°C 43	26277	°C 110
	°F 120		°F 240
26254	°C 49	26278	°C 116
	°F 130		°F 250
26255	°C 54	26279	°C 121
	°F 140		°F 260
26256	°C 60	26280	°C 127
	°F 160		°F 270
26257	°C 71	26281	°C 132
	°F 170		°F 280
26258	°C 77	26282	°C 138
	°F 180		°F 290
26259	°C 82	26283	°C 143
	°F 190		°F 300
26260	°C 88	26284	°C 149
	°F 200		°F 375
26261	°C 93	26285	°C 191
	°F 210		°F 400
26272	°C 99	26291	°C 204
	°F 500		°F 290
26277	°C 260	26292	°F 300
	°F 270		°C 149
26262	°F 230	26293	°F 375
	°C 110		°C 191
26263	°F 240	26294	°F 400
	°C 116		°C 204
26264	°F 250	26295	°F 500
	°C 121		°C 260
26265	°F 260	26288	°F 290
	°C 127		°C 143
26266	°F 270	26289	°F 300
	°C 132		°C 149
26267	°F 280	26290	°F 375
	°C 138		°C 191
26268	°F 290	26291	°F 400
	°C 143		°C 204
26269	°F 300	26292	°F 500
	°C 149		°C 260
26270	°F 375	26293	°F 290
	°C 191		°C 149
26271	°F 400	26273	°F 375
	°C 204		°C 191
26272	°F 500	26294	°F 400
	°C 260		°C 204



Label Size 13mm x 44mm



Label Size 14mm diameter

Tempilabel® Reversible Reversible Temperature

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

Thermax® 5 Level Clock Style Indicator

- Compact design for use on small areas
- Excellent accuracy to +/- 2% of the Fahrenheit rating
- Temperature range from 105°F (40°C) to 500°F (260°C)
- Permanent record for inspection and quality control
- Calibration-free
- Oil-, water- and steam-resistant



Part No. Temperature Range

Pack of 10

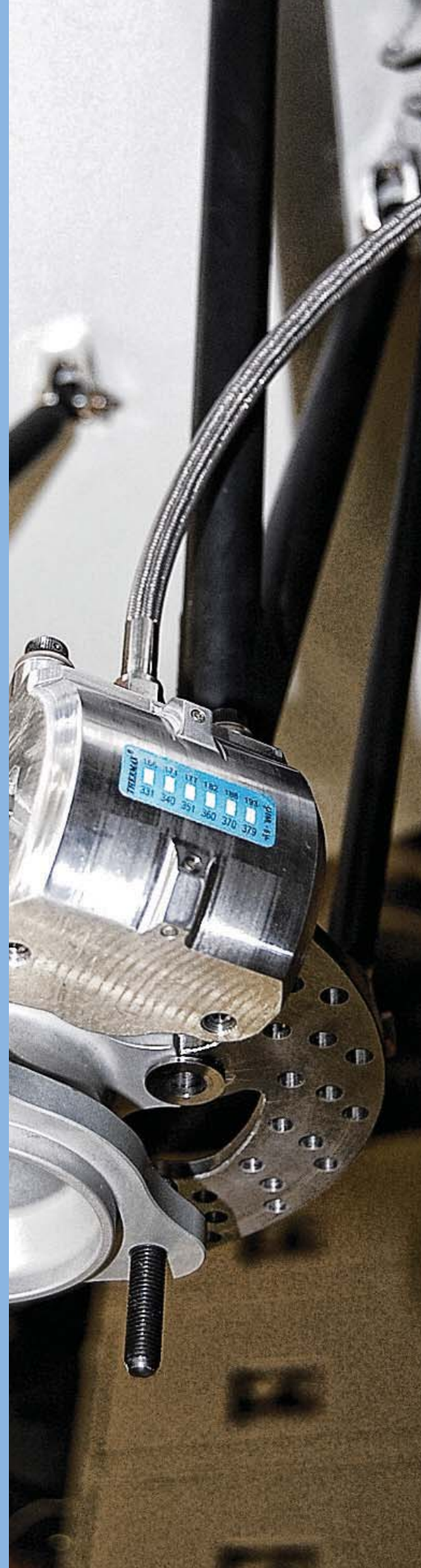
26900	°F	32	41	50	59	68	77	86
	°C	0	5	10	15	20	25	30
26901	°F	86	95	104	113	122	131	140
	°C	30	35	40	45	50	55	60
26903	°F	140	149	158	167	176	185	194
	°C	60	65	70	75	80	85	90



Part No. Temperature Range

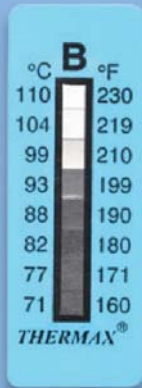
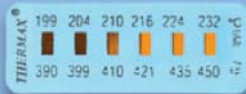
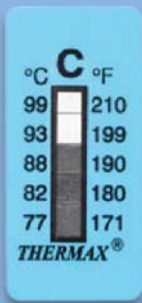
Pack of 10

26001	°F	105	110	115	120	130
	°C	40	43	46	49	54
26002	°F	140	150	160	170	180
	°C	60	65	71	77	82
26003	°F	190	200	210	220	230
	°C	88	93	99	104	110
26004	°F	240	250	260	270	280
	°C	116	121	127	132	138
26005	°F	290	300	310	320	330
	°C	143	149	154	160	166
26006	°F	340	350	360	370	380
	°C	171	177	182	188	193
26007	°F	390	400	410	420	435
	°C	199	204	210	216	224
26008	°F	450	465	480	490	500
	°C	232	241	249	254	260



Thermax[®] Irreversible Temperature Indicating Strip Labels

- Multiple and single temperature configuration available
- Excellent accuracy to +/- 2% of the Fahrenheit rating
- Temperature range from 84°F (29°C) to 554°F (290°C)
- Single-way color change
- Permanent record for inspection and quality control
- Calibration-free
- Oil-, water- and steam-resistant



5 Level

Label Size 18mm x 39mm

Part No. Temperature Range

Pack of 10

26535	°F	84	91	93	99	104
	°C	29	33	34	37	40
26517	°F	99	104	109	111	115
	°C	37	40	42	44	46
26519	°F	120	129	140	149	160
	°C	49	54	60	65	71
26521	°F	171	180	190	199	210
	°C	77	82	88	93	99
26523	°F	219	230	241	250	261
	°C	104	110	116	121	127
26525	°F	270	280	289	300	309
	°C	132	138	143	149	154
26527	°F	320	331	340	351	360
	°C	160	166	171	177	182
26529	°F	370	379	390	399	410
	°C	188	193	199	204	210
26531	°F	421	435	450	466	480
	°C	216	224	232	241	249
26533	°F	480	489	500	536	554
	°C	249	254	260	280	290

8 Level

Label Size 18mm x 51mm

Part No. Temperature Range

Pack of 10

26801	°F	99	104	109	115	120	129	140	149
	°C	37	40	43	46	49	54	60	65
26803	°F	160	171	180	190	199	210	219	230
	°C	71	77	82	88	93	99	104	110
26805	°F	241	250	261	270	280	289	300	309
	°C	116	121	127	132	138	143	149	154
26807	°F	320	331	340	351	360	370	379	390
	°C	160	166	171	177	182	188	193	199

9 Level

Label Size 18mm x 51mm

Part No. Temperature Range

Pack of 10

26809	°F	399	410	421	435	450	466	480	489	500
	°C	204	210	216	224	232	241	249	254	260

10 Level

Label Size 18mm x 51mm

Part No. Temperature Range

Pack of 10

26100	°F	104	108	111	115	120	129	140	144	149	160
	°C	40	42	44	46	49	54	60	62	65	71
26103	°F	171	180	190	199	210	219	230	241	250	261
	°C	77	82	88	93	99	104	110	116	121	127
26105	°F	270	280	289	300	309	320	331	340	351	360
	°C	132	138	143	149	154	160	166	171	177	182
26107	°F	370	379	390	399	410	421	435	450	466	480
	°C	188	193	199	204	210	216	224	232	241	249

6 Level

Label Size 12mm x 32mm

Part No. Temperature Range

Pack of 10

26601	°F	84	91	93	99	104	108
	°C	29	33	34	37	40	42
26603	°F	111	115	120	129	140	144
	°C	44	46	49	54	60	62
26605	°F	149	160	171	180	190	199
	°C	65	71	77	82	88	93
26608	°F	210	219	230	241	250	261
	°C	99	104	110	116	121	127
26610	°F	270	280	289	300	309	320
	°C	132	138	143	149	154	160
26612	°F	331	340	351	360	370	379
	°C	166	171	177	182	188	193
26614	°F	390	399	410	421	435	450
	°C	199	204	210	216	224	232
26616	°F	466	480	489	500	536	554
	°C	241	249	254	260	280	290

PIPE THREAD SEALANTS Industry professionals rely on thread compounds and sealants to help get the job done right. Made to highest quality standards and engineered to withstand some of the toughest environments, you can trust these products to help do the job faster, better, and safer.



Slic-tite[®] Paste with PTFE Heavy-duty pipe thread compound

- Contains PTFE for greater sealing power
- Pressures: 3,000 PSI (204 BAR) for gas; 10,000 PSI (680 BAR) for liquid
- Sealing temperature: -50°F to 500°F (-46°C to 260°C)
- Can be used on a variety of metals and plastic, eliminating the need for any other thread sealant
- Washes off hands and clothes easily; quick and easy cleanup
- Safe, non-toxic, non-drying
- **DO NOT USE ON OXYGEN SERVICE; USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE**



Part No.	Size	Case Quantity
41209	1/4 pt. Brush-in-cap	12
42009	1/4 pt. Brush-in-cap	24
41219	1/2 pt. Brush-in-cap	12
42019	1/2 pt. Brush-in-cap	24
42012	1 pt.	24
42029	1 pt. Brush-in-cap	24
42013	1 qt.	12
42049	1 qt.	12
42014	1 gal.	4
42015	5 gal.	Pail
42069	55 gal.	Drum
42002	1-1/2 oz.	24



Slic-tite® Stik with PTFE Premium thread sealant in a stick

- Pressures: 500 PSI (34 BAR) for gas; 5,000 PSI (340 BAR) for liquid
- Sealing temperature: -50°F to 350°F (-46°C to 177°C)
- Contains PTFE particles for greater sealing power
- Washes off hands and clothes easily; quick and easy cleanup
- Safe, non-toxic, non-drying
- DO NOT USE ON OXYGEN SERVICE; USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE



Part No.	Size	Case Quantity
41600	1-1/4 oz.	24

LEAK-TITE® Blue Economical thread sealant with PTFE

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



Part No.	Size	Case Quantity
46009	1/4 pt. Brush-in-cap	24
46029	1 pt. Brush-in-cap	24
46013	1 qt.	12
46049	1 qt. Brush-in-cap	12
46069	55 gal.	Drum

T-O-T® Pipe thread compound

- Pressures: 350 PSI (24 BAR) for gas; 500 PSI (34 BAR) for liquid
- Sealing temperature: up to 350°F (177°C)
- No-drip siliconized formula for fast application on metal threads
- Lead-free, non-toxic, no V.O.C.'s
- DO NOT USE ON OXYGEN SERVICE; USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE



Part No.	Size	Case Quantity
12219	1/2 pt. Brush-in-cap	24
12208	5 lb	6



PIPETITE® Paste

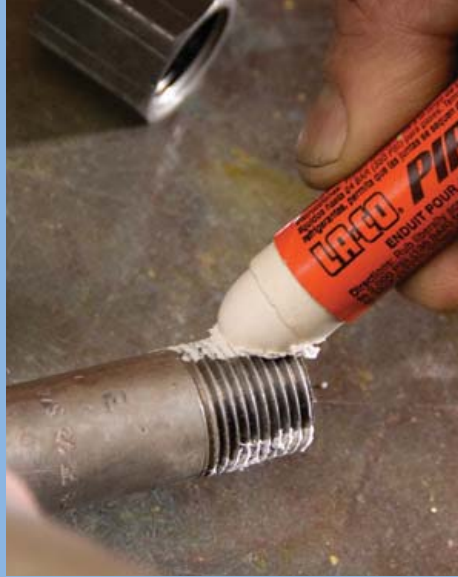
Soft set pipe thread compound

- Pressures: 2,600 PSI (177 BAR) for gas; 5,000 PSI (340 BAR) for liquid
- Sealing temperature: up to 400°F (204°C)
- No V.O.C.'s
- DO NOT USE ON OXYGEN SERVICE; USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE



Case Quantity 24

Part No.	Size
12109	1/4 pt. Brush-in-cap
12110	1/2 pt. Brush-in-cap
12112	1 pt. Brush-in-cap



PIPETITE-Stik®

Thread sealant in a stick

- Pressures: 350 PSI (24 BAR) for gas; 2,000 PSI (136 BAR) for liquid
- Sealing temperature: up to 350°F (177°C)
- Safe, non-toxic, non-drying
- DO NOT USE ON OXYGEN SERVICE; USE OXYTITE PASTE OR SLIC-TITE PTFE TAPE



Part No.	Size	Case Quantity
11175	Standard Size - 1-1/4 oz.	144
11176	King Size - 4 oz.	72



OXY-TITE®

Pipe thread sealant for oxygen systems

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



Case Quantity 6

Part No.	Size
42805	4 oz.



LA-CO LOC® Anaerobic pipe thread sealant

- Pressures: 3,000 PSI (204 BAR) for gas; 10,000 PSI (680 BAR) for liquid
- Sealing temperature: -65°F to 400°F (-54°C to 204°C)
- 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



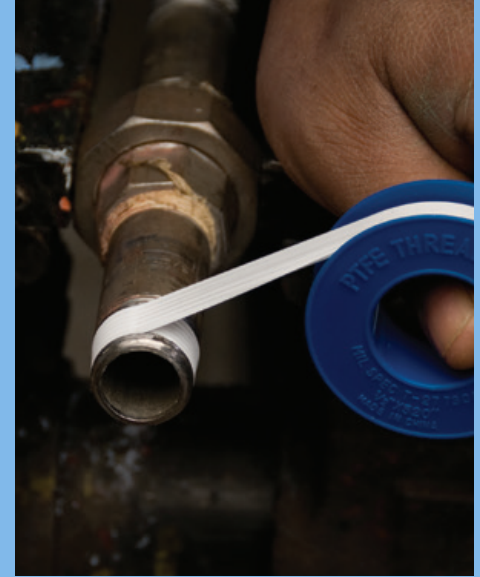
Part No.	Size	Case Quantity
49050	50 ml. Tube	12
49250	250 ml. Tube	6



Slic-tite® PTFE Thread Tape Premium grade, high density

- Pressure: to 10,000 PSI (690 bar)
- Sealing temperature: -450°F to 500°F (-268°C to 260°C)
- 3 mils thick and made with PTFE for greater sealing power
- Non-toxic
- Yellow for gas line usage
- Pink for water line usage


Case Quantity 12		
Part No.	Size	Color
44080	1/4" x 300"	White
40481	1/4" x 600"	White
44082	1/2" x 300"	White
44083	1/2" x 600"	White
44084	1/2" x 1200"	White
44085	3/4" x 300"	White
44086	3/4" x 600"	White
44087	1" x 300"	White
44088	1" x 600"	White
44094	1/2" x 260"	Yellow
44095	1/2" x 260"	Pink



Pipe Thread Tape of PTFE Economy grade

- Pressure: to 10,000 PSI (690 bar)
- Sealing temperature: -450°F to 550°F (-268°C to 288°C)
- 3 mils thick and made with PTFE for effective sealing power
- Non-toxic

Case Quantity 144	
Part No.	Size
44070	1/4" x 520"
44071	1/2" x 260"
44072	1/2" x 520"
47272	1/2" x 520"
44073	1/2" x 1296"
44074	3/4" x 260"
44075	3/4" x 520"
44076	3/4" x 1296"
44077	1" x 260"
44078	1" x 520"
44079	1" x 1296"

A man with a beard and a cap is working on a metal structure. He is wearing a brown work shirt and black gloves. He is holding a soldering iron and is soldering a metal component. The background is a dark industrial setting.

SOLDERING FLUXES When it comes to soldering and brazing, LA-CO® is the brand that workers around the world trust to do the job right the first time, every time. Proudly made in the USA for over 80 years, LA-CO makes specialty fluxes for all metals including aluminum, stainless steel, brass, iron, tin and zinc. When your job is on the line, make sure you have the best materials for the job.



Regular Flux Paste Soldering flux

- 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



Part No.	Size	Case Quantity
22101	2 oz.	48
22104	4 oz.	48
22194	4 oz. Brush-in-cap	48
22107	1 lb.	24

Silver Brazing Flux Paste For high heat brazing

- Temperature range: 1000°F to 1700°F (538°C to 927°C)
- Powerful cleaning action reduces waste of expensive silver solders



Part No.	Size	Case Quantity
22305	6 oz.	24
22395	6 oz. Brush-in-cap	24
22307	1 lb.	24
22302	2 oz.	48





FLUX RITE 90®

Water-soluble soldering flux paste

- Water-soluble paste won't leave residue in water piping
- Meets industry standard ASTM B813 and contains no zinc chloride, reducing 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



Part No.	Size	Case Quantity
23154	4 oz.	24
23157	1 lb.	12



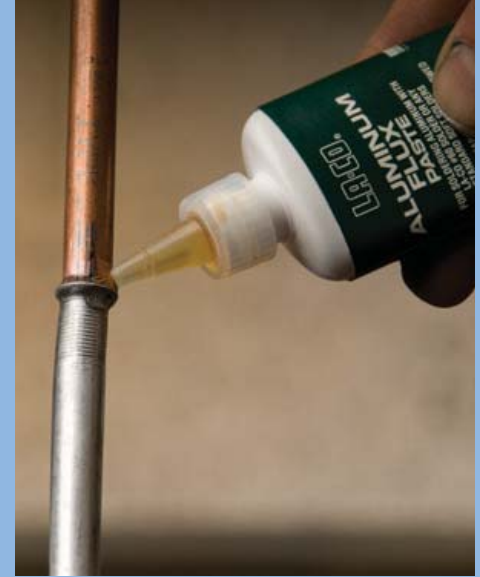
Aluminum Flux Paste

Solders aluminum at low temperatures

- 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



Case Quantity 24	
Part No.	Size
22404	4 oz.
22407	1 lb.



Aluminum Flux Paste & Solder Kit

Solders aluminum at low temperatures

- 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
- Includes 90/10 tin-zinc solder, keeping work conditions lead-free



Case Quantity 12	
Part No.	Size
36474	1 oz. Flux & 1/2 oz. Solder



LA-CO BRITE

Liquid soldering flux

- Ideal for high-speed production and mechanized soldering equipment
- Non-acid, contains no zinc chloride, reducing corrosion concerns
- Cleans pipe upon application, allowing solder to run more smoothly around the pipe



N-3 Flux Liquid

Aggressive flux liquid for chrome and stainless steel

- Fast-fluxing action for extra-tough soldering jobs
- More aggressive than typical stainless steel fluxes
- DO NOT USE ON POTABLE WATER TUBING



"M-A" Flux Liquid

Stainless steel flux liquid

- Fast-fluxing action for stainless steel and chrome
- Contains no heavy metal chlorides, preventing potential flux damage
- DO NOT USE ON POTABLE WATER TUBING



Part No.	Size	Case Quantity
23104	4 oz.	24
23112	1 pt.	24
23113	1 qt.	12
23114	1 gal.	4
23115	5 gal.	1



Part No.	Size	Case Quantity
23512	1 pt.	24
23513	1 qt.	12
23514	1 gal.	4



Part No.	Size	Case Quantity
23904	4 oz.	24
23913	1 qt.	12
23914	1 gal.	4

HEAT BARRIER PRODUCTS Whether soldering, brazing, or welding, heat can cause significant damage to sensitive materials, components, or surrounding materials. These excessive temperatures cannot only damage items in a work area, but can also create both health and safety hazards. Heat barrier products are specially designed to withstand these brutal temperatures when other materials can't to keep your jobsite productive, safe, and free of damage.





Cool Gel® Heat barrier spray

- 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 cleanup
- Safe, non-toxic, harmless to skin, and odorless



Part No.	Size	Case Quantity
11513	1 pt.	24
11509	1 qt.	12
11503	5 gal.	Pail



BLOC-IT® Heat absorbing paste

- 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



Part No.	Size	Case Quantity 24
11511	10 oz.	

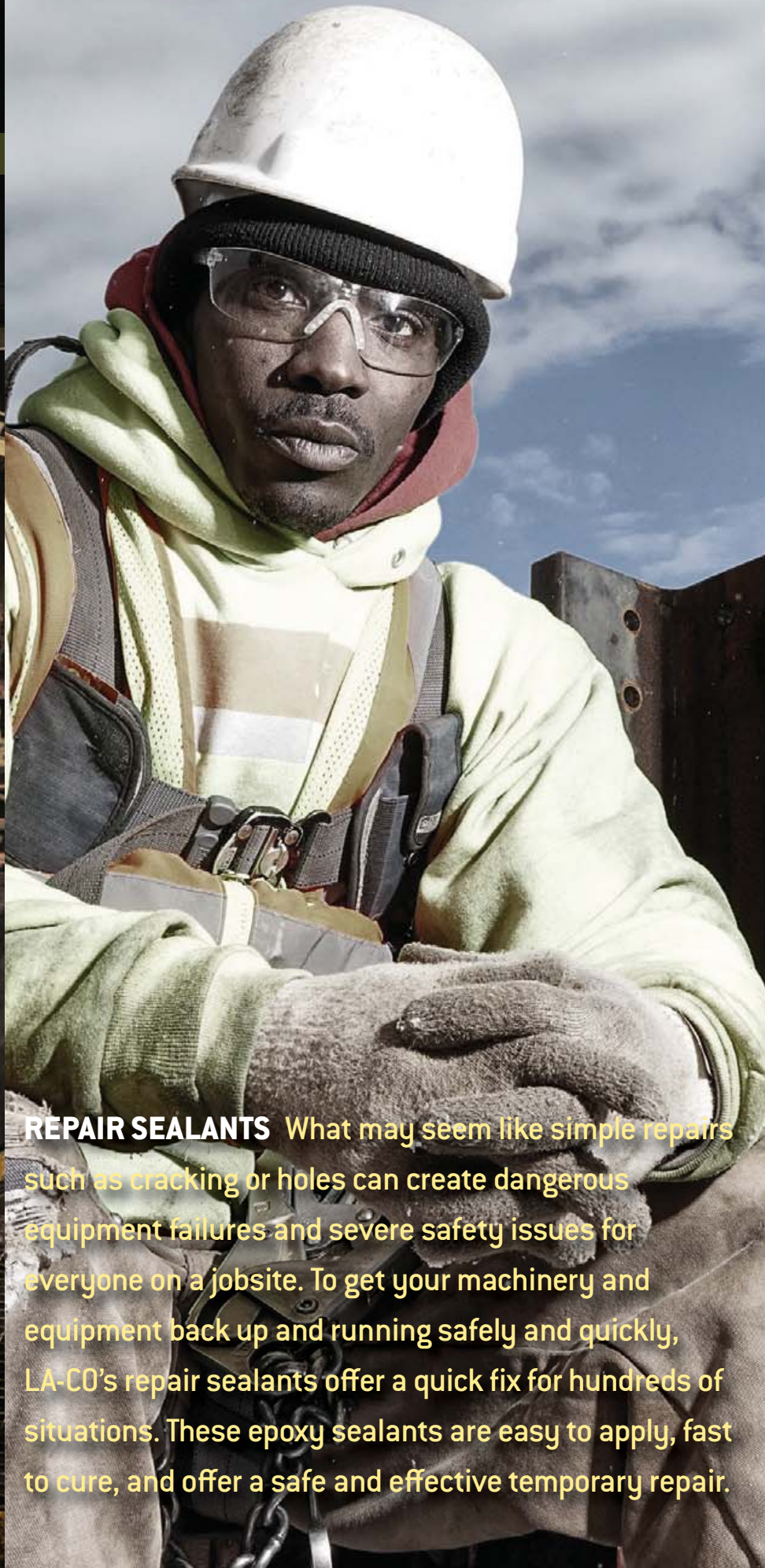


Anti-Heat® Heat Absorbing Compound

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



Part No.	Size	Case Quantity
24000	5 gal.	Pail
24001	1 gal.	1
24002	1 qt.	1
24003	12 oz. Tube	1



REPAIR SEALANTS What may seem like simple repairs such as cracking or holes can create dangerous equipment failures and severe safety issues for everyone on a jobsite. To get your machinery and equipment back up and running safely and quickly, LA-CO's repair sealants offer a quick fix for hundreds of situations. These epoxy sealants are easy to apply, fast to cure, and offer a safe and effective temporary repair.



HEAT-SEAL STIK® Premixed epoxy sealer

- Sealing temperature: up to 350°F (177°C)
- Pressure: to 600 PSI (41 BAR)
- 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



Case Quantity 12

Part No.	Description
11575	HEAT-SEAL STIK



EPOXY-STIK® Epoxy repair compound for water piping systems

- Withstands temperatures up to 250°F (121°C)
- Hardens in 5-10 minutes and cures fully in 24 hours, enabling the system to be up and running again in no time
- Can be applied under water for submerged pipe leaks
- After one hour can be drilled, tapped, filed, sawed, sanded, and painted - allowing the job to be easily finished in little time



Case Quantity 24

Part No.	Description
19571	24 per display case



EPOXY-TABS™ Type "O" Epoxy repair compound for oil and gas leaks

- Stops leaks fast and gets equipment running within minutes, minimizing leak exposure
- Apply directly to the fuel tank without draining, less time is spent stopping the leak



Case Quantity 30

Part No.	Description
19570	Carded Epoxy-Tabs Type "O"



Oyltite-Stik® Epoxy repair compound for low pressure equipment

- Pressure to 15 PSI (1 BAR)
- 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

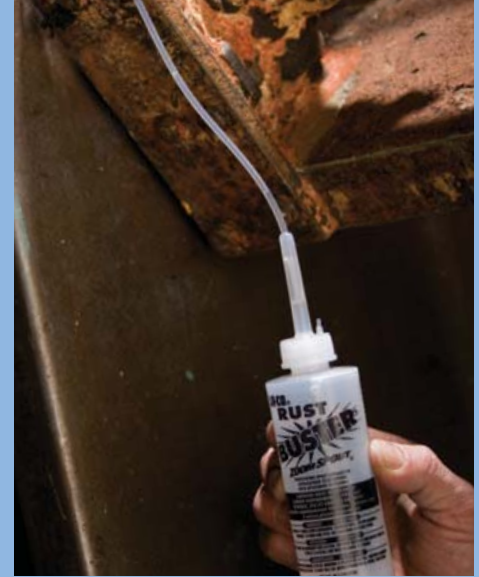


Case Quantity 24

Part No.	Description
11475	Oyltite-Stik

LUBRICANTS Keeping your machinery running smoothly can add years of life to your equipment and can help avoid dangerous failures and costly repairs. LA-CO® industrial strength anti-seize compounds, pipe gasket lubricant, thread cutting oil, and general purpose lubricants help to ensure that you get the most out of your equipment.





EZ BREAK® Copper and Nickel Grade Anti-seize compound

- Copper working temperature: to 1800° F (982° C)
- Nickel working temperature: to 2600° F (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"



Part No.	Size	Case Quantity
Copper		
08910	10 oz. Brush-in-cap	24
08907	16 oz. Brush-in-cap	24
08925	8 lbs.	4
08950	42 lbs.	Pail
08969	425 lbs.	Drum
08930	2-1/4 oz. Stick	24
08916	14 oz. Aerosol	12
Nickel		
08971	8 oz. Brush-in-cap	24
08972	16 oz. Brush-in-cap	24
08978	42 lbs.	Pail

PIERCE® Aerosol rust remover, penetrant, and lubricant

- Penetrates through rust for quick rust removal
- Helps clean metal surfaces by removing tar, grease, dirt, and asphalt
- Colorless, moisture-repellent film guards against continuing rust and corrosion
- Displaces moisture, lubricates, and eliminates squeaks



Case Quantity 24	
Part No.	Size
79711	12 oz. Aerosol

RUST BUSTER® Liquid rust remover

- Special telescoping spout lubricates hard-to-reach areas up to 7" away
- Quickly loosens rusted bolts so equipment can be maintained faster and more easily
- Safe for skin, clothes, metals, and friction-type surfaces - contains no acids, alkali, or other harmful ingredients



Case Quantity 24	
Part No.	Size
79706	4 fl. oz.



LUBRI-JOINT®

Water dispersible gasket lubricant

- 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



Case Quantity 12

Part No.	Size
78713	1 qt.



Cutting Oil

For hand tools and high-speed thread cutting machines

- Two cutting oils in one, eliminating the need for multiple cutting oils for low-speed and high-speed thread cutting
- Combines the best properties of dark and light cutting oils with sulfur and other additives to provide superior heat protection for costly cutting dies
- For use on many types of metals: steel, brass, copper, black iron, wrought iron, and galvanized iron



Case Quantity 6

Part No.	Size
73414	1 gal.



Zoom Spout® Oiler

General purpose lubricating oil

- Special telescoping spout lubricates hard-to-reach areas up to 17.8cm away
- Premium, turbine grade oil is excellent for all general purpose lubricating



Case Quantity 24

Part No.	Size
79704	4 fl. oz.



sure-chek® All-temperature leak detector

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

VISU-GLOW® High-visibility leak detector

- Temperature range: 15°F to 200°F (-9°C to 93°C)
- 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

ALERT® Economy grade leak detector

- Temperature range: 15°F to 200°F (-9°C to 93°C)
- Handy nozzle allows for easy application
- Highly-visible fluorescent color shows brightly for easy leak identification
- Non-corrosive, non-toxic, safe for oxygen



Part No.	Size	Case Quantity
32850	1 pt.	24
32851	1 qt.	12
32852	1 gal.	4



Part No.	Size	Case Quantity
32898	8 fl. oz. with dauber	24
32894	1 gal.	4



Case Quantity 24	
Part No.	Size
32844	8 fl. oz.



SPECIALTY COATINGS No two jobsites are the same and certain ones require a specialty product to help get the job done right. Tempil's brand of specialty chemicals not only withstand use in some of the world's toughest environments, they can offer added efficiency, protection, and value that other primers and paints can't. These coatings are proudly made in the USA, but have been tested, used, and approved for use all over the world.



Bloxide® Weldable Primer

- Enhanced corrosion resistance for extended periods of storage
- Aluminium-based formula allows for welding without removal, reducing downtime and rework contamination
- High temperature resistant to 800°F (427°C)
- Recommended film thickness: wet 3.0 mil, dry 0.75 mil
- Can be sprayed, brushed or parts can be dipped into it



Part No.	Size	Case Quantity
24100	1 gal.	4
24101	55 gal.	Drum
24102	5 gal.	Pail
24104	12 oz. Aerosol	12



Pyromark® High Temperature Paint

- Silicone-based coating for long-lasting protection against oxidation and corrosion
- Pyromark 1200 withstands 1000°F (538°C)
- Pyromark 2500 withstands 2000°F (1093°C)
- 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



Part No.	Size	Color	Case Quantity
Series 1200			
25002	1 gal.	Flat Black	1
25000	55 gal.	Charcoal Metallic	Drum
25001	5 gal.	Flat Black	Pail
25000	55 gal.	Charcoal Metallic	Drum
25003	55 gal.	Metallic Black	Drum
25005	55 gal.	Satin Black	Drum
25007	55 gal.	Stainless Steel	Drum
Series 1200 Thinner			
25011	1 gal.		1
Series 2500			
25010	1 gal.	Flat Black	1
25009	5 gal.	Flat Black	Pail
25008	55 gal.	Flat Black	Drum
Series 2500 Thinner			
25012	1 gal.		1





Duct Tape

All-purpose tape

- All-purpose tape great for duct work and countless other applications
- Cotton-blend cloth backing for better laminating strength



PLUMBSET® Putty

Professional plumber's putty

- Non-drying putty will resist liquid seepage
- Will not stain metal surfaces, allowing fixtures to maintain a polished look
- **DO NOT USE ON PLASTIC, MARBLE, OR OTHER NATURAL POROUS STONE, AS IT WILL STAIN THE MATERIAL**



PLUMBSET® Wax Bowl Rings

Professional wax bowl rings

- Forms watertight, gastight, and odor-tight seal
- Will not harden or deteriorate
- Adjusts to contraction, expansion, and settling of floors
- Available with flange; fits 3" and 4" waste lines, extends short horn bowls



Case Quantity 24

Part No.	Size
44099	2" x 60 yards



Part No.	Size
19507	14 oz.
19509	3 lbs.
19508	5 lbs.



Case Quantity	Part No.	Description	Case Quantity
24	59010	No flange	48
6	59011	With flange	24
6			



Lifter Wipes® General purpose cleaning wipes

- Smooth side for gentle cleaning, rough side for hard-to-clean areas
- Tear-resistant for heavy duty cleaning jobs
- No residue left behind and no drying necessary - simply wipe up the mess and throw the towel away
- Removes heavy grease, oils, tar, asphalt, inks, wax, lubricants, adhesives, and many other hard-to-remove materials



Case Quantity 6

Part No. Size

72405 70 Towels/Bucket





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