

OTHER LA-CO PRODUCT CATALOGS



PLUMBING & CHEMICAL PRODUCTS CATALOG

A full listing of quality products that drive your business today and in the future. Including thread sealants, fluxes, heat protection, leak detection, repair compounds and many more industrial and plumbing products.



LIVESTOCK MARKING CATALOG

LA-CO's All-Weather® brand of livestock marking products includes solid paint in stick form, aerosol spray paints, liquid spray dyes and ear tag markers for all livestock marking applications.

www.laco.com
www.markal.com

Call, write or email for additional information

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Family owned and operated since 1934

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LA-CO *Markal*

Proven Every Day // Proven Everywhere®

LA-CO *Markal*

Proven Every Day // Proven Everywhere®



**HIGH PERFORMANCE
INDUSTRIAL MARKERS**

www.markal.com

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ABOUT LA-CO/MARKAL



Our Products

LA-CO®

Markal®

ALL-WEATHER®
First Choice in Livestock Marking

From a simple but brilliant idea – putting paint into a convenient hand-held marker – to an array of thousands of products, LA-CO®/Markal® has led the way in marking, plumbing chemicals and livestock identification technology for over 70 years. With the development of unique specialty chemical products that meet demanding industrial applications, the LA-CO® and Markal® brands have become the leaders in the industries they serve.

LA-CO® is a performance-based company. Performance in the products we manufacture; in the service to our customers; and in our people, who are our most important resource. Our company's success has been founded on the belief that first and foremost we listen to our customers. Once we determine their future needs, then we can develop high performance products that meet or exceed those needs. We continue to make extensive investments in new equipment and manufacturing processes and in new product research to meet the ever changing needs of our customers.

Today LA-CO® & Markal® branded products are sold through over 6,500 distributors around the world in over 30 countries. This extensive network allows us to provide the highest level of service to our customers.

Our People

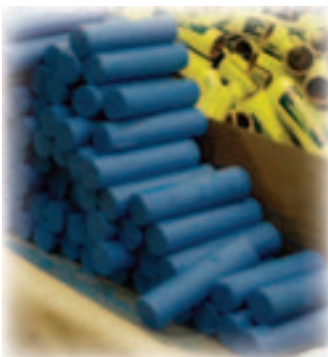
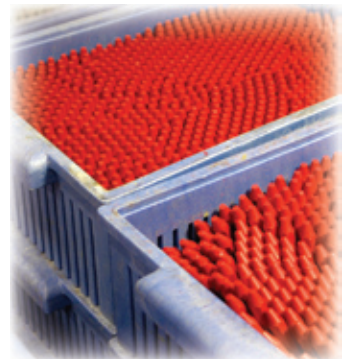
LA-CO's employees are our most important asset. They conduct the research for new and better products, maintain the high quality level of our products and provide fast, efficient customer service to all our customers. Without them, we could not maintain the leadership role in the marketplace that we enjoy today. Their experience, dedication and hard work will ensure LA-CO's future success.



Our Mission

“To actively listen to our customers and meet or exceed their expectations by providing the highest quality performance products for marking, sealing, joining and other chemical specialty applications.

To be environmentally responsible in the design and manufacture of our products. To promote the growth and well-being of our employees.”



LA-CO® *Markal®*

Proven Every Day // Proven Everywhere®

Family owned and operated since 1934

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- Pro-Wash®
- Pro-Line®
- Pro-Max®
- Ball Paint Marker®
- Dura-Ball®



SOLID PAINT MARKERS

Real Paint in Stick Form

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- | | |
|----------------------------|------------------------------|
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| • C®, E®, F®, Fast Dry | • J, K, PK, X-5 |
| • M® and M-10, N®, O-10, P | |



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- Anti-Seize Compounds
- Cool Gel® Heat Barrier Spray
- Lubricating Oil
- Thread Tapes



MARKER APPLICATION CHART

MARKER APPLICATION CHART

MARKER TYPE	LIQUID PAINT							SOLID PAINT											
	VALVE ACTION® PAINT MARKER	PRO-LINE®	PRO-MAX®	BALL PAINT MARKER®	DURA-BALL®	PRO-WASH® W	PRO-WASH® D	AMBIENT SURFACE											
SURFACE TYPE								B PAINTSTIK®	B-E PAINTSTIK®	B-L PAINTSTIK®	BL-W PAINTSTIK®	C PAINTSTIK®	E PAINTSTIK®	F PAINTSTIK®	FAST DRY PAINTSTIK®	M PAINTSTIK®	M-10 PAINTSTIK®	N PAINTSTIK®	O-10 PAINTSTIK®
METAL																			
AMBIENT SURFACE, -50° TO 150°F	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•
HOT SURFACE (See p.15 for specific temps.)																	•		
OIL COVERED	•	•	•	•	•			•	•				•	•	•				•
ROUGH SURFACE								•	•				•	•	•				•
BLEED-THROUGH PRIMER										•	•								
HIGH VISIBILITY	•	•	•	•	•	•	•						•	•	•				
FOR GALVANIZING																			
NO BLEED-THROUGH							•	•										•	
MARKING UNDER BLACK LIGHT														•					
ANNEALING AND HEAT TREATING																•	•		
TEMPORARY MARKING						•	•												
WOOD																			
DRY LOGS								•	•				•	•					
WET LOGS								•	•				•	•					
GRADING LUMBER, PLYWOOD																			
GRADING LUMBER W/BLACK LIGHT READER														•				•	
CREOSOTED LUMBER								•	•				•	•					
HIGH VISIBILITY	•	•	•	•	•								•	•					
BOXES & CRATES	•	•	•	•	•			•	•				•	•					
SURVEYOR'S STAKES	•	•	•	•	•			•	•				•	•					
PLASTIC																			
PIPING & TUBING	•	•	•	•	•	•	•	•	•			•	•	•	•				
PLASTIC TAGS						•	•												
INVENTORY TAGS	•	•	•			•	•												
BINS & CONTAINERS	•	•	•	•	•	•	•	•	•			•	•	•	•				
FILM	•	•	•	•	•	•	•	•	•			•	•	•	•				
SHEET - ROD - SLAB	•	•	•	•	•	•	•	•	•			•	•	•	•				
LAMINATES	•	•	•	•	•	•	•	•	•			•	•	•	•				
GLASS & CERAMICS																			
PERMANENT MARKING	•	•	•	•	•			•	•			•	•	•	•			•	
TEMPORARY MARKING						•	•												
CONCRETE & STONE																			
CONCRETE & STONE								•	•				•	•	•				
PAPER																			
SIGNS	•	•	•					•	•			•	•	•					
WAXED OR COATED	•		•					•	•			•	•	•					
CARDBOARD																			
SIGNS	•	•	•					•	•			•	•	•					
CARTONS - DRY	•	•	•					•	•			•	•	•					
CARTONS - FROZEN, ICE COVERED								•	•					•	•				
RUBBER																			
AMBIENT SURFACE, -50° TO 150°F	•	•	•	•	•			•	•			•	•	•	•				
HOT SURFACE, 300° TO 500°F																			
CLOTH - FABRICS																			
PERMANENT MARKING	•	•	•	•	•			•	•			•	•	•	•				
TEMPORARY MARKING																			

• = RECOMMENDED USES

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SOLID PAINT										INK	LUMBER MARKING					SPECIALTY											
HOT SURFACE																											
P PAINTSTIK®																											
WS- 3/8 PAINTSTIK®																											
QUIK STIK® PAINTSTIK®																											
H PAINTSTIK®																											
HT PAINTSTIK®																											
HT-34 PAINTSTIK®																											
HT-40 PAINTSTIK®																											
HT-75 PAINTSTIK®																											
J PAINTSTIK®																											
K PAINTSTIK®																											
PK PAINTSTIK®																											
X-5 PAINTSTIK®																											
DURA-INK® #10, 15, 25, 55, 80, 200																											
PLASTIC TAG MARKER																											
PRO-EX® CRAYON																											
LUMBER CRAYON #200																											
LUMBER CRAYON #500																											
ULTRASCAN®																											
OPTIMARK®																											
SCAN-IT PLUS®																											
TRADES MARKER®																											
CHINA MARKER																											
CARPENTER'S PENCIL																											
SILVER-STREAK®																											
RED-RITER®																											
SOAPSTONE																											
TYRE MARQUE®																											
ZEPHYR® PAINTSTIK®																											
RAILROAD CHALK																											

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LIQUID PAINT MARKERS

Works like a marker,
lasts like paint.



For bright, bold, long-lasting marks that go on easier, dry faster and stay brighter longer than ink, nothing beats real paint. Markal's Liquid Paint Markers can be used on almost any surface in cold to hot extremes. They are ideal for dry, wet or oily surfaces, including metal, wood, plastic, glass, rubber, paper, cardboard and styrofoam. From the original Valve Action® Paint Marker to the new generation of Pro-Line® and Pro-Max®, these markers deliver extended-wear marks from fine lines to broad, bold marks. For real paint that washes off quickly and easily with water or mild detergent, Markal's newest Pro-Wash® W and Pro-Wash® D are ideal.

For the durability your job requires, insist on Markal® Liquid Paint Markers.

LIQUID PAINT- VALVE ACTION®

VALVE ACTION® PAINT MARKER

Marks in Real Paint



- Marks with real paint, dries in 3 minutes
- Long-lasting weather-, water- and UV-resistant marks with better, brighter coverage compared to ink markers
- Marks on all surfaces including: metal, wood, glass, plastic, rubber, cardboard and paper
- Durable, 1/8"-thick nib permits fineline marking or bold, thick marks visible from long distances; fiber nibs are replaceable to increase marker life
- Improved "flowmatic" valve releases paint on-demand for smooth, continuous use

Durable,
Replaceable Tips



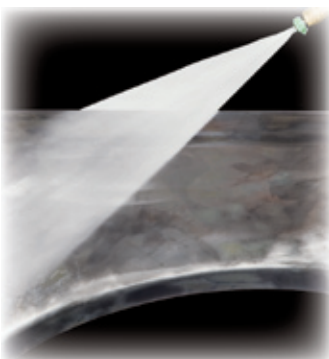
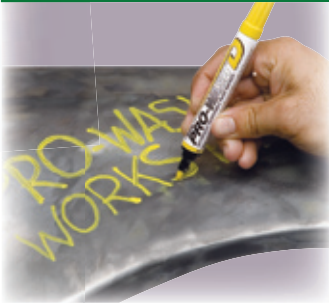
- Sturdy metal barrel featuring stronger crimped barrel design prevents leakage while withstanding heavy industrial use
- Vapor-lock cap seals nib to prevent tip dry-out
- Lead-free paint meets California VOC regulations
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Tip Size 1/8"		
Bulk		
96809	Brown	48
96817	Purple	48
96820	White	48
96821	Yellow	48
96822	Red	48
96823	Black	48
96824	Orange	48
96825	Blue	48
96826	Green	48
96827	Gold	48
96828	Light Green	48
96830	Pink	48
96832	Aluminum	48
96835	Light Blue	48
Carded		
96800	White	24
96801	Yellow	24
96802	Red	24
96803	Black	24
96804	Aluminum	24
96805	Blue	24
96806	Green	24
96807	Orange	24
Tips		
96867	Replacement Tips	144

PRO-WASH® PAINT MARKERS

Removable Marks in Real Paint!



- Pro-Wash® W marks with real paint; marks can be removed simply with water or in a power wash process
- Pro-Wash® D marks with real paint; the water and weather-resistant paint can be removed with detergent solutions that have a pH level of 10 or above
- Ideal for quality control processes, parts assembly operations, color coding, defect identification and general marking applications
- Available in six colors for color coding, for reject/accept quality control processes, parts assembly or for shift/operator identification
- Marks with real paint
- Fast-drying: 30-60 seconds
- Marks on metal, glass, plastic and other non-porous surfaces
- Will not ghost or leave a residue when removed

- Durable 1/8"-thick nib provides bold visible marks
- Valve-actuated tip releases paint on demand for smooth continuous use
- High-strength, light-weight barrel designed for industrial use
- Rugged, vapor-lock cap design prevents nib dry-out when not in use
- Marking range: 0°F to 150°F (-18°C to 66°C)

NEW!



PART NO.	COLOR	CASE QTY.
Tip Size 1/8"		
Bulk		
Pro-Wash D		
97010	White	48
97011	Yellow	48
97012	Red	48
97013	Black	48
97015	Blue	48
97016	Green	48
Pro-Wash W		
97030	White	48
97031	Yellow	48
97032	Red	48
97033	Black	48
97035	Blue	48
97036	Green	48
Carded		
Pro-Wash D		
97017	White	24
97018	Yellow	24
97019	Red	24
97020	Black	24
97021	Blue	24
97022	Green	24
Pro-Wash W		
97037	White	24
97038	Yellow	24
97039	Red	24
97040	Black	24
97041	Blue	24
97042	Green	24
Tips		
97023	Replacement Tips	144

LIQUID PAINT MARKERS

PRO-LINE®

Fine and Micro Tips



- Valve-actuated tip is available in Fine (1/16") and Micro (1/32") tip sizes for ultimate precision
- High-strength, lightweight barrel for industrial use
- Ideal for metal, also suitable for wood, glass, plastic, rubber and more
- Available in 9 bold colors
- Xylene-free for less odor
- Self-storing cap with integrated pocket clip
- Ergonomic design for comfortable extended use
- Marking range: 0°F to 150°F (-18°C to 66°C)



PART NO.	COLOR	CASE QTY.
----------	-------	-----------

Fine		
Tip Size 1/16"		
96871	White	48
96872	Yellow	48
96873	Black	48
96874	Red	48
96875	Blue	48
96876	Green	48
96877	Orange	48
96878	Pink	48
96879	Light Green	48
Fine Carded		
96857	White	24
96858	Yellow	24
96859	Red	24
96860	Black	24
Micro		
Tip Size 1/32"		
96888	White	48
96889	Yellow	48
96890	Black	48
96891	Red	48

PRO-MAX®

Big, Bold Marks in Permanent Paint



- Largest marks available (9/16") in an industrial paint marker
- Ideal for identification, fill-in marking, signage or safety marking on any surface
- Fast-drying, bold, long-lasting opaque paint is xylene-free for less odor
- Valve-actuated tip releases paint on-demand for smooth, continuous use
- Durable, long-lasting nib marks in 3 different sizes
- Self-storing cap fits snugly on end of marker when in use
- Available in 6 bright, ultra-visible colors
- Marking range: 0°F to 150°F (-18°C to 66°C)



PART NO.	COLOR	CASE QTY.
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One Tip, Three Mark Sizes:		
3/16"	5/16"	9/16"
Bulk		
90900	White	24
90901	Yellow	24
90902	Red	24
90903	Black	24
90904	Orange	24
90905	Blue	24
Carded		
90910	White	12
90911	Yellow	12

LIQUID PAINT MARKERS

BALL PAINT MARKER®

Marks on Smooth or Rough Surfaces



- Marks with real paint, dries in 5 minutes
- Durable metal ball tip marks on wet, oily, smooth and rough surfaces including metal, wood, plastic, glass and any hard surface
- Ideal for color coding, inspection, shipping, identification, assembly and fabricating
- Lead-free, non-toxic
- Marks are weather-resistant, fade-resistant
- Unbreakable plastic bottle with 1/8" steel ball tip
- Stores in pocket for easy access
- Plastic cap keeps tip clean between jobs
- Available in 7 vivid colors for color coding
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
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Tip Size 1/8"

Bulk		
84620	<input type="checkbox"/> White	48
84621	<input checked="" type="checkbox"/> Yellow	48
84622	<input checked="" type="checkbox"/> Red	48
84623	<input checked="" type="checkbox"/> Black	48
84624	<input checked="" type="checkbox"/> Orange	48
84625	<input checked="" type="checkbox"/> Blue	48
84626	<input checked="" type="checkbox"/> Green	48

Carded

84600	<input type="checkbox"/> White	24
84601	<input checked="" type="checkbox"/> Yellow	24

DURA-BALL®

Metal Ball Tip



- Durable steel ball tip marks on smooth or rough surfaces
- Marks with real paint and dries in 5 minutes
- All colors are low chloride making them safe for marking stainless steel and nuclear applications
- Marks on all metals, wood, plastic, glass, any hard surface
- Marks are weather-resistant, fade-resistant
- Marks on vertical or overhead surfaces without running or dripping
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
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Tip Size 1/8"

96652	<input type="checkbox"/> White	48
96653	<input checked="" type="checkbox"/> Yellow	48
96654	<input checked="" type="checkbox"/> Red	48
96655	<input checked="" type="checkbox"/> Black	48
96656	<input checked="" type="checkbox"/> Orange	48
96657	<input checked="" type="checkbox"/> Blue	48
96658	<input checked="" type="checkbox"/> Green	48
96659	<input checked="" type="checkbox"/> Pink	48
96660	<input checked="" type="checkbox"/> Violet	48
96661	<input checked="" type="checkbox"/> Brown	48
96662	<input checked="" type="checkbox"/> Gray	48
96663	<input checked="" type="checkbox"/> Beige	48



SOLID PAINT MARKERS



The benefits of real paint,
in solid stick form.



Markal® Paintstik® markers are real lead-free paint in stick form. The markers combine the long-lasting durability of paint with the ease of application of a crayon. The result is a marker that is cleaner, easier and more efficient to use than a paint and brush. Our wide variety of Paintstik markers includes over 20 unique formulas to meet every need. From extreme cold environments (-50°F) to high-heat work applications (2200°F), Markal® Paintstik® markers are suitable for any surface that is smooth or rough, clean or oily. For a complete guide to marking temperature ranges, see chart on page 15.

From the originators of paint in stick form, Markal® has it all!

SOLID PAINT-AMBIENT SURFACE MARKERS

B® PAINTSTIK®

Marks on Any Material or Surface



- Real lead-free paint in stick form; combines long-lasting durability of paint with the ease-of-use of a crayon
- Weather-resistant, UV-resistant
- Ideal for layout, color coding, fabrication and identification
- Marks through oil and water
- Marks on smooth, rough, rusty or dirty surfaces
- For use on metal, wood, plastic, concrete, rubber, glass, cardboard and paper
- Available in 3 sizes—standard 11/16", fine 3/8" and bold 1"
- Lead-free, non-toxic
- Standard Paintstik® (11/16") uses #101 & #102 holder (p. 32)
- B-3/8" uses #107 holder (p. 32)
- Marking range: -50°F to 150°F (-46°C to 66°C)

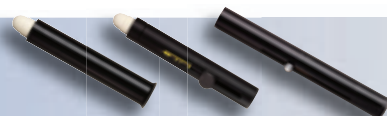


PART NO.	COLOR	CASE QTY.
Standard Size: 11/16" x 4-3/4"		
80220	White	144
80221	Yellow	144
80222	Red	144
80223	Black	144
80224	Orange	144
80225	Blue	144
80226	Green	144
80227	Pink	144
80228	Purple	144
80229	Brown	144
80230	Gray	144
80231	Gold	144
80232	Aluminum	144
82821	Fluor: Yellow	144
84810	White	48
84811	Yellow	48
84812	Red	48
84813	Black	48
84814	Orange	48
84815	Blue	48

PART NO.	COLOR	CASE QTY.
Standard Size Carded: 11/16" x 4-3/4"		
80200	White Carded	36
80201	Yellow Carded	36
2 Paintstiks per card		
Fine Size: 3/8" x 4-3/4"		
80420	White	144
80421	Yellow	144
King Size: 1" x 4-3/4"		
80260	White	144



PAINTSTIK® HOLDERS



Clean, comfortable, convenient.
Complete selection on pp. 32-33

SOLID PAINT- AMBIENT SURFACE MARKERS

B-E® PAINTSTIK®

For Marking Very Rough Surfaces

- For marking forgings, castings, rough logs, lumber, concrete and other rough surfaces
- Marks will withstand prolonged immersion in water
- Lead-free, non-toxic
- Long-lasting, weather-resistant, fade-resistant
- Uses #101 & #102 holder (p. 32)
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
80620	White	144
80621	Yellow	144
80622	Red	144
80623	Black	144
80624	Orange	144
80625	Blue	144

B-L® PAINTSTIK®

Bleeds Through Solvent-Based Paints

- Marks bleed through solvent-based or oil-based paints
- For fabricating structural steel or layout work where the marks are required to bleed through a primer coat covering the marks
- To prevent bleeding through the finish coat, seal the marked areas with water-based epoxy paint
- For marking under water-based primers use the BL-W Paintstik®
- Uses #101 & #102 holder (p. 32)
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
80725	Blue	144
84834	Blue	48

BL-W® PAINTSTIK®

Bleeds Through Water-Based Paints

- Marks bleed through water-based paints
- For fabricating structural steel or layout work where the marks are required to be seen through the primer coat covering the marks
- For marking under solvent-based or oil-based primers use the B-L Paintstik®
- Uses #101 & #102 holder (p. 32)
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
80735	Blue	144

C® PAINTSTIK®

For Marking on Smooth Surfaces

- For marking on smooth surfaces such as: cold rolled steel, sheet metal, plate glass and plastic
- Long-lasting, weather-resistant, fade-resistant
- Uses #101 & #102 holder (p. 32)
- Marking range: 0°F to 150°F (-18°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
80820	White	144
80821	Yellow	144
80823	Black	144

E® PAINTSTIK®

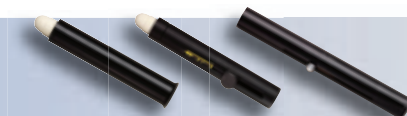
For High-Visibility Marks

- High-intensity colors
- For greater visibility in dimly lit areas
- For coding, identification, layout and assembly work
- Long-lasting, weather-resistant, fade-resistant
- Available in regular and king size
- Uses #101 & #102 holder (p. 32)
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Standard Size: 1 1/16" x 4-3/4"		
88620	White	144
88621	Yellow	144
88622	Red	144
88624	Orange	144
88625	Blue	144
King Size: 1" x 4-3/4"		
88640	White	144

PAINTSTIK® HOLDERS



Clean, comfortable, convenient.
Complete selection on pp. 32-33

SOLID PAINT-AMBIENT SURFACE MARKERS

F® PAINTSTIK®

All-Purpose Fluorescent Marker

- Ultra-high-visibility fluorescent colors
- For marking metal, wood, glass, plastic, concrete, rubber, cardboard and paper

- Marks through oil and water
- Ideal for layout, inspection and color coding
- Glows under black light

- Marking range: -50°F to 150°F (-46°C to 66°C)
- Uses #101 & #102 holder (p. 32)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
82831	Yellow	72
82832	Red	72
82834	Orange	72
82835	Blue	72
82836	Green	72
82842	Pink	72

FAST DRY PAINTSTIK®

Dries in 5 Minutes

- Marks dry in 5 minutes
- Ideal for marking in fabricating shops and assembly lines where immediate handling is necessary

- For marking metal, wood, glass, plastic, concrete, rubber, cardboard and paper
- 3/8" size for marking smaller items

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



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
82720	White	72
82721	Yellow	72
82722	Red	72
Size: 3/8" x 4-3/4"		
82730	White	72
82731	Yellow	72

M® and M-10 PAINTSTIK®

Marks Annealed, Normalized & Heat-Treated Surfaces

- Marks withstand annealing and heat-treating operations
- For welds, ingots, castings, forgings and annealed parts

- Will not come off in oil or water baths
- Uses #101 & #102 holder (p. 32)

- Mark at room temperature
M withstands 1600°F (871°C)
M-10 withstands 1800°F (982°C)



PART NO.	COLOR	CASE QTY.
M Size: 1 1/16" x 4-3/4"		
81920	White	144
81921	Yellow	144
81922	Red	144
81923	Black	144
M-10 Size: 1 1/16" x 4-3/4"		
82020	White	144

N® PAINTSTIK®

Marks Will Not Show Through Top Coat. Dries Overnight

- Marks will not show through top coat of primer or finish layer of paint
- Ideal for shipbuilding or other metal fabrication that will be given a final coat of paint

- For marking metal, wood, glass, plastic, concrete, rubber, cardboard, paper and ceramic
- Will mark on wet, dry, oily, rusty, icy, smooth or rough
- Uses #101 & #102 holder (p. 32)

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



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
82120	White	144
82121	Yellow	144
82123	Black	144

O-10 PAINTSTIK®

Marks Heavily Oiled Surfaces. Dries Overnight

- For marking heavily oiled cold rolled steel and other oily surfaces

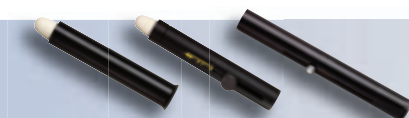
- Uses #101 & #102 holder (p. 32)

- Marking range: 0°F to 250°F (-18°C to 121°C)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
82220	White	144

PAINTSTIK® HOLDERS



Clean, comfortable, convenient.
Complete selection on pp. 32-33

SOLID PAINT-AMBIENT SURFACE MARKERS

P PAINTSTIK®

Removes in Pickling Baths

- Real paint in stick form, non-drying
- For marking steel prior to galvanizing process
- Marks are completely removed in the pickling bath and will not interfere with the galvanizing process
- Uses #101 & #102 holder (p. 32)
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 4-3/4"		
83420	White	144

WS-3/8® PAINTSTIK®

Water Soluble

- Water soluble for easy removal
- Smaller diameter for finer line marking
- Ideal for the temporary marking of plastics, glass, painted metal surfaces, polished aluminum, car bumpers and exotic metals
- Uses #107 holder (p. 32)
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 3/8" x 4-1/4"		
82420	White	144
82421	Yellow	144
82422	Red	144
82423	Black	144

QUIK STIK® PAINTSTIK®

Fast-Drying, Long-Lasting Marks



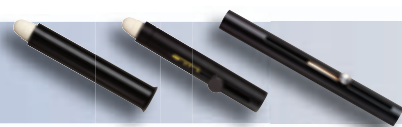
- Smooth-marking, fast-drying paint marks dry in 5-7 minutes
- Bright, bold, fade-resistant colors
- More marks for the money, 20% longer than other brands
- Plastic holder with self-storing cap prevents breakage, keeps hands and clothing clean
- Stick advances by turning twist-up knob
- Marks on virtually any surface: metal, glass, plastic, wood, cardboard, paper, etc.
- Marking range: 0°F to 140°F (-18°C to 60°C)



PART NO.	COLOR	CASE QTY.
Size: 1 1/16" x 6"		
Bulk		
61018	Red	24
61019	Black	24
61020	White	24
61017	Yellow	24
61049	Red	72
61050	Black	72
61051	White	72
61053	Yellow	72
61069	Green	72
61070	Blue	72
61071	Orange	72
61073	Purple	72
Carded		
61063	Red	24
61064	Black	24
61067	White	24
61068	Yellow	24

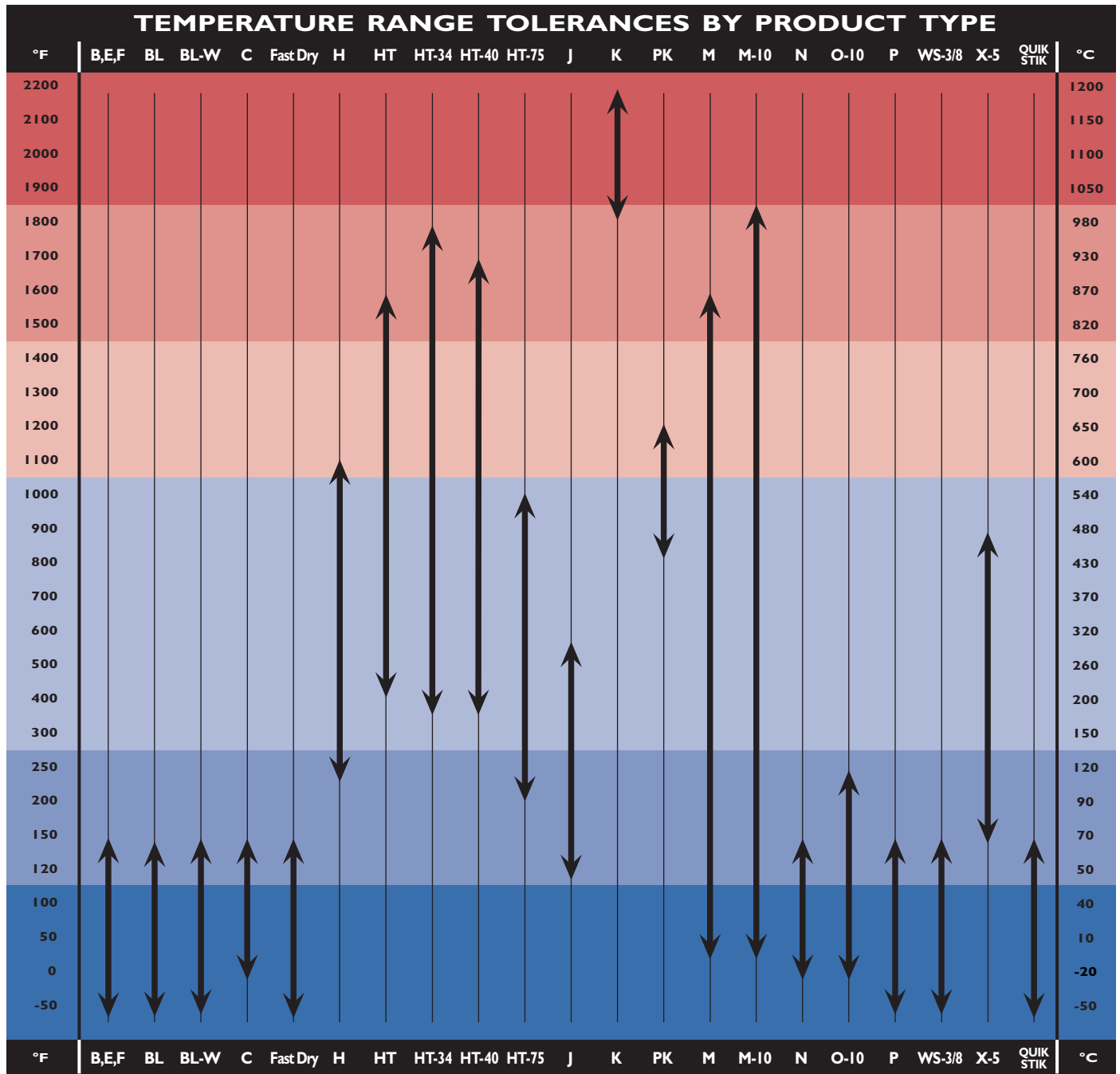


PAINTSTIK® HOLDERS



Clean, comfortable, convenient.
Complete selection on pp. 32-33

SOLID PAINT- MARKING TEMPERATURES



Determine the proper Markal® Paintstik® for your specific application. The chart provides you with the optimal marking temperature range for each of our Paintstik® markers. This information should be used as a general guide only. For specific marking applications, please contact your local Markal® Sales Representative or contact our Customer Service Department at 800-621-4025. They will be happy to recommend the best marking product for your specific application.

SOLID PAINT- HOT SURFACE MARKERS

H PAINTSTIK®

Marks Hot Steel 225° to 1100°F

- Real paint in stick form
- Bright colors for higher visibility
- Marks hot coils, billets, slabs, bars, ingots, etc.
- Marks will not run, char, discolor, peel or crack
- Marks are long-lasting, weather-resistant and fade-resistant
- Uses #100 & #111 holder (pp. 32-33)
- Marking range: 225°F to 1100°F (107°C to 593°C)

PART NO.	COLOR	CASE QTY.
Standard Size: 3/8" x 4-5/8"		
81020	White	144
81021	Yellow	144
81022	Red	144
81023	Black	144
81025	Blue	144
81026	Green	144
81029	Brown	144

HT PAINTSTIK®

Marks Hot Steel 400° to 1600°F

- Real paint in stick form
- Bright colors for higher visibility
- Marks very hot coils, billets, slabs, bars, ingots, etc.
- Marks will not run, char, discolor, peel or crack
- Marks are weather-resistant and fade-resistant
- Available in two sizes, regular and king size
- Uses #100, #102K & #111 holder (p. 32-33)
- Marking range: 400°F to 1600°F (204°C to 871°C)

PART NO.	COLOR	CASE QTY.
Standard Size: 3/8" x 4-1/2"		
81220	White	144
81221	Yellow	144
81222	Red	144
81223	Black	144
81225	Blue	144
81226	Green	144
King Size: 3/4" x 4-5/8"		
81210	White	144

HT-34 PAINTSTIK®

Marks Hot Steel 400° to 1800°F

- Real paint in stick form
- Marks very hot coils, billets, slabs, bars, ingots, etc.
- Marks will not run, char, discolor, peel or crack
- Marks are long-lasting, weather-resistant, fade-resistant
- Available in two sizes, regular and king size
- Uses #100, #102K & #111 holder (pp. 32-33)
- Marking range: 400°F to 1800°F (204°C to 982°C)

PART NO.	COLOR	CASE QTY.
Standard Size: 3/8" x 4-1/2"		
84720	White	144
King Size: 3/4" x 4-5/8"		
84710	White	144

HT-40 PAINTSTIK®

Marks Hot Steel 350° to 1700°F

- Real paint in stick form
- Marks very hot coils, billets, slabs, bars, ingots, etc.
- Marks will not run, char, discolor, peel or crack
- Marks are long-lasting, weather-resistant, fade-resistant
- Available in two sizes, regular and king size
- Uses #100 & #111 holder (pp. 32-33)
- Marking range: 350°F to 1700°F (177°C to 927°C)

PART NO.	COLOR	CASE QTY.
King Size: 3/4" x 4-5/8"		
81610	White	144

HT-75 PAINTSTIK®

Marks Hot Steel 200° to 1000°F

- Real paint in stick form
- Marks aluminum, steel, hot rubber, etc.
- Marks are weather-resistant and fade-resistant
- Makes broad, highly visible marks
- Uses #102K holder (p. 32)
- Marking range: 200°F to 1000°F (93°C to 538°C)

PART NO.	COLOR	CASE QTY.
Size: 3/4" x 4-5/8"		
84820	White	144

PAINTSTIK® HOLDERS



Clean, comfortable, convenient.
Complete selection on pp. 32-33

SOLID PAINT- HOT SURFACE MARKERS

J PAINTSTIK®

Marks Hot Steel 120° to 600°F

- Real paint in stick form
- For foundries and mills where extreme temperature variance is encountered
- Dual purpose marker marks on either hot or cold surfaces; recommended where temperature varies rapidly from cold to hot
- Marks will not run, char, discolor, peel or crack
- Uses #100 & #111 holder (pp. 32-33)
- Marking range: 120°F to 600°F (49°C to 316°C)

PART NO.	COLOR	CASE QTY.
Size: 3/8" x 4-5/8"		
81720	<input type="checkbox"/> White	144



K PAINTSTIK®

Marks Red-Hot Steel 1800° to 2200°F

- Real paint in stick form
- Marks on extremely hot steel
- Marks will not run, char, discolor, peel or crack
- Marks iron and steel castings, ingots, forgings, blooms, billets and high-temperature metal alloys
- Uses #102K holder (p. 32)
- Marking range: 1800°F to 2200°F (982°C to 1204°C)

PART NO.	COLOR	CASE QTY.
Size: 3/4" x 4-5/8"		
81820	<input type="checkbox"/> White	144



PK PAINTSTIK®

Marks Remove in Pickling Bath

- Marks are removed completely in any standard acid pickling bath
- Bright white paint in stick form
- Marks on hot steel coils
- Marks will not run, char or discolor
- No ghosting image on the metal surface
- Marking range: 800°F to 1200°F (427°C to 649°C)

PART NO.	COLOR	CASE QTY.
Size: 3/8" x 4-5/8"		
81200	<input type="checkbox"/> White	144



X-5 PAINTSTIK®

Marks Hot Steel 150° to 900°F

- Real paint in stick form
- Dual purpose marker marks on either hot or cold surfaces; recommended where temperature varies rapidly from cold to hot
- Marks will not run, char, discolor, peel or crack
- Marks on hot slabs, rough castings, ingots, forgings and rough surfaces that encounter wide temperature variations
- Bright colors for higher visibility
- Uses #100 & #111 holder (pp. 32-33)
- Marking range: 150°F to 900°F (66°C to 482°C)

PART NO.	COLOR	CASE QTY.
Size: 3/8" x 4-5/8"		
82520	<input type="checkbox"/> White	144
82521	<input checked="" type="checkbox"/> Yellow	144



PAINTSTIK® HOLDERS



Clean, comfortable, convenient.
Complete selection on pp. 32-33

FELT-TIP INK MARKERS

Industrial felt-tip ink markers that work as hard as you do.



Dura-Ink® is the must-have, multi-purpose felt-tip marker that all jobsites, workshops and shipping departments demand. For 1,001 everyday uses, Markal has the perfect color, shape and size marker for your needs. Inside the toolroom, warehouse, on the production line or at the construction site, Dura-Inks are unbeatable in versatility. They work on metal, wood, cardboard, paper, ceramics, rubber and glass. With chisel tips, heavy-duty plastic and metal barrels, and high-intensity colors, Dura-Ink® is the marker of choice for every industrial application.

FELT-TIP INK MARKERS

DURA-INK® #10

Fine Chisel Tip



- Versatile tapered chisel tip for 1/32" and 3/32" marks
- Ink formulated for industrial-strength use
- Smear-resistant, water-resistant, fast drying
- Marks on metal, wood, cardboard, paper, plastic, cloth, glass, etc.
- For identification of parts and layout work
- Durable plastic barrel & cap with pocket clip

NEW!



PART NO.	COLOR	CASE QTY.
Mark Size: Thin Side 1/32" Thick Side 3/32"		
96076	Black	72



DURA-INK® #15

Fine Bullet Tip



- Ideal for fineline marking
- Extra-tough tip won't spread or mush
- Smear-resistant, water-resistant, fast-drying
- Marks on metal, wood, cardboard, paper, plastic, glass, etc.
- For identification of parts, layout work, and marking cartons and crates
- Durable plastic barrel & cap with metal pocket clip



PART NO.	COLOR	CASE QTY.
Mark Size: 1/16"		
96022	Red	72
96023	Black	72
96025	Blue	72
96026	Green	72
Carded		
96033	Black	36



DURA-INK® #25

King Size, Chisel Tip



- Heavy-duty metal barrel with pocket clip on cap
- Chisel tip makes fine lines or broad marks
- Extra-large ink supply for greater mileage
- Use on cardboard, wood, metal, paper, ceramics, glass and leather
- For identification of equipment, marking shipping cartons, making signs, etc.

NEW!



PART NO.	COLOR	CASE QTY.
Mark Size: Thin Side 1/8" Thick Side 1/4"		
96222	Red	48
96223	Black	48
96225	Blue	48
96229	Brown	48
Carded		
96233	Black	24



FELT-TIP INK MARKERS

DURA-INK® #55

Medium Tapered Chisel Tip



- Ergonomic design for extended use
- Versatile tapered chisel tip for 1/16" and 3/16" marks
- Long mileage, economical
- Ink formulated for industrial-strength usage
- Smear-resistant, water-resistant, fast drying
- Durable plastic barrel & cap with pocket clip
- Use on cardboard, ceramics, glass, cloth, lumber; paper; rubber and steel

NEW!



PART NO.	COLOR	CASE QTY.
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Mark Size:
Thin Side 1/16" Thick Side 3/16"

96528	Red	48
96529	Black	48
96530	Blue	48
96531	Green	48



DURA-INK® #80

Valve-Actuated Tip



- Large ink supply for increased marking mileage
- Smear-resistant, water-resistant, fast-drying
- Tough, durable tip marks on all surfaces, including: metal, wood, cardboard, glass, paper, etc.
- Metal barrel
- Rounded tip
- Valve-actuated tip, releases ink on-demand for smooth, continuous use



PART NO.	COLOR	CASE QTY.
----------	-------	-----------

Mark Size: 1/8"

96923	Black	48
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DURA-INK® #200

Broad Chisel Tip



- Extra-wide chisel tip for 5/8" and 3/8" marks
- Jumbo ink supply for greater mileage
- Ink formulated for industrial-strength usage
- Durable cap and barrel for heavy-duty use
- Use on cardboard, wood, metal, paper, ceramics, cloth, glass, etc.
- For identification of equipment, signs and marking containers

NEW!



PART NO.	COLOR	CASE QTY.
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Mark Size:
Thin Side 3/8" Thick Side 5/8"

96914	Green	24
96915	Blue	24
96916	Red	24
96917	Black	24



FELT-TIP INK MARKERS

PLASTIC TAG ALL-WEATHER[®] MARKER

For Polyurethane Tags



- Marks etch into plastic tags for long-lasting visibility
- Fast-drying, non-smearing
- Weather-resistant, UV-resistant
- Available in two sizes, felt fineline and valve action tip



PART NO.	COLOR & DESCRIPTION	CASE QTY.
Fine Tip		
<i>Mark Size: 1/8"</i>		
96723	■ Black, Fine Tip	72
Carded		
96733	■ Black, Fine Tip	72
Medium Tip		
<i>Mark Size: 3/16"</i>		
96623	■ Black, Medium Tip	48
96638	□ White, Medium Tip	48
Carded		
96734	■ Black, Medium Tip	24
96639	□ White, Medium Tip	24

FOR ALL YOUR MARKING NEEDS



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LUMBER & TIMBER MARKERS



Bright and precise marks with Markal® lumber crayons and fluorescent markers.



For marking logs, boards and raw timber, Markal has a marker that fits. Lumber crayons offer an economical wax base or a contractor-grade clay base crayon. Scan-It Plus® fluorescent crayons are available in soft, medium or hard in dozens of colors for scanning mark readers. UltraScan® is designed specifically for high-volume lumber mills, with 18 new colors, improved visibility for scanning and works in all seasons.

OptiMark®, the newest product in the lumber marker family, offers cut-off saw operators a choice. With OptiMark®, you get 6 distinctive colors, easier clean-up with less downtime and bright, clear marks that virtually eliminate missed scans.

LUMBER & TIMBER MARKERS

PRO-EX® CRAYON

Extruded, Clay-Based



- The clay-based “feel” that high-volume lumber crayon users prefer
- Stronger formula for reduced breakage
- Display packs have a convenient tear-off top to display the crayons for individual sales
- Superior performance on wet wood
- Lead-free
- Standard 1/2" hex shape fits the #109 Peterson holder, #106 holder and #108 holder (pp. 32-33)
- Marking range: -20°F to 130°F (-29°C to 24°C)



PART NO.	COLOR	CASE QTY.
Size: 1/2" x 4-5/8"		
Bulk		
80380	White	144
80381	Yellow	144
80382	Red	144
80383	Black	144
80384	Orange	144
80385	Blue	144
80386	Green	144
80387	Pink	144
80388	Purple	144
Size: 1/2" x 4-5/8"		
Carded		
80401	Yellow	36
80402	Red	36
80403	Black	36
80405	Blue	36

LUMBER CRAYON #200

Economical, Wax-Based

- Also known as layout chalk or “keel”
- Standard 1/2" hex shape fits the #109 Peterson holder, #106 holder and #108 holder (pp. 32-33)
- Lead-free
- Economical
- Use on cardboard, ceramics, concrete, lumber, metal, paper, plastic and rubber

- Marking range: -20°F to 150°F (-28°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 1/2" x 4-5/8"		
Bulk		
80350	White	144
80351	Yellow	144
80352	Red	144
80353	Black	144
80354	Orange	144
80355	Blue	144
80356	Green	144
80358	Purple	144

LUMBER CRAYON #500

Clay-Based

- Also known as layout chalk or “keel”
- Clay-based formula provides longer marking mileage
- Makes weather-resistant, water-resistant marks
- Lead-free
- Marks on concrete, wood, metal, plastic, rubber, paper, cardboard and ceramics
- Standard 1/2" hex shape fits the #109 Peterson holder, #106 holder and #108 holder (pp. 32-33)

- Marking range: -20°F to 150°F (-28°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 1/2" x 4-5/8"		
80320	White	144
80321	Yellow	144
80322	Red	144
80323	Black	144
80324	Orange	144
80325	Blue	144
80326	Green	144
80327	Pink	144
80328	Purple	144
Fluorescent Colors		
80451	Yellow	72
80452	Red	72
80454	Orange	72
80456	Green	72
80462	Pink	72

LUMBER & TIMBER MARKERS

ULTRASCAN® FLUORESCENT For All Grade Mark Readers



- Polymer formula offers superior performance to conventional wax fluorescent crayons
- More color separation and better character recognition than competitive wax fluorescent crayons
- Excellent writing on wet and green lumber, even with a fungicide coating
- One temperature formula eliminates need for multiple hardnesses, rated for temperatures between 0°F and 100°F
- Up to four times the writing life of competitive wax fluorescent crayons, especially on rough surface hardwood and green lumber
- The highest fluorescent response of any lumber grading marker
- Longer writing life and high strength formula for lower crayon usage
- Specifically developed for excellent performance with Lucidyne, Newnes McGehee and Cypress grade mark readers
- Superior performance in other applications requiring fluorescent marking and recognition, such as PictureTally systems and Sick Optics luminescence sensors
- For use with ProGrade Holder



PART NO.	COLOR	CASE QTY.
Standard Size: 1 1/16" Round x 4-5/8"		
82430	Brick Red 11	72
82431	Magenta 21	72
82432	Red Orange 31	72
82433	Orange 41	72
82434	Berry 51	72
82435	Lime 61	72
82436	Burgundy 12	72
82439	Dark Orange 42	72
82440	Brown 52	72
82441	Green 62	72
82442	Rust 13	72
82446	Yellow Orange 53	72
82447	Yellow 63	72
82450	Blue Green 70	72
82457	Light Blue 81	72
82452	Royal Blue 80	72
82454	Red Violet 101	72
82451	Bright Pink 91	72
82459	Bright Orange 44	72
82461	Spring Green 71	72
82462	Dark Brown 55	72
82463	Golden Rod 54	72
82466	Purple 24	72
82467	Bright Red 34	72
82468	Neon Orange 103	72
82469	Tan 45	72
82470	Tangerine 03	72

SCAN-IT PLUS® FLUORESCENT For All Grade Mark Readers



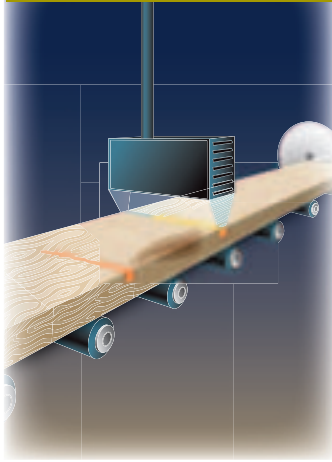
- Certified to meet the specifications of Lucidyne ColorScan® grade mark readers
- Each batch tested on Lucidyne ColorScan® grade mark reader
- Extremely accurate readability lowers your operating costs
- Works on wet or green wood, as well as wood that contains pitch and sap
- Smear-resistant
- 15 fluorescent colors available in 3 hardnesses
- No time-consuming trial and error crayon selection
- For use with #109 & #112 Peterson holder
- Temperature ranges:
Soft: 0°F to 40°F (-17°C to -4°C)
Medium: 40°F to 70°F (-4°C to 21°C)
Hard: 70°F to 100°F (21°C to 38°C)



PART NO.	COLOR	CASE QTY.
Size: 1/2" Hex x 4-5/8"		
Soft	Med.	Hard
82630	82330	82230
82631	82331	82231
82632	82332	82232
82633	82333	82233
82634	82334	82234
82640	82340	82240
82641	82341	82241
82642	82342	82242
82643	82343	82243
82644	82344	82244
Standard Size: 1 1/16" Round x 4-5/8"		
Soft	Med.	Hard
82635	82335	82235
82636	82336	82236
82637	82337	82237
82638	82338	82238
82639	82339	82239
82645	82345	82245
82646	82346	82246
82647	82347	82247
82648	82348	82248
82649	82349	82249
82655	82355	82255
82656	82356	82256
82657	82357	82257
82658	82358	82258
82659	82359	82259

LUMBER & TIMBER MARKERS

OPTIMARK® FLUORESCENT **Designed for Optimizing Cut-off Saws**



- 6 visually distinct fluorescent colors allow you to easily identify up to 6 different operators
- Lasts longer – up to 4x the writing life compared to ordinary crayons and fluorescent markers
- Reduced color transfer to machinery surfaces
- Fewer misreads
- Easier clean-ups and less downtime
- Bright, clear marks eliminate missed scans
- Standard 1/2" hex shape fits the #109 Peterson holder, #106 holder and #108 holder



PART NO.	COLOR	CASE QTY.
Size: 1/2" Hex x 4-5/8"		
82742	Red	144
82743	Orange	144
82744	Pink	144
82745	Red Orange	144
82746	Yellow Orange	144
82747	Burgundy	144

PROGRADE HOLDER

For Scanning Crayons

- 1 1/16" diameter, push-button design for round Lumber Crayons
- For UltraScan and Scan It 1 1/16" round markers
- The flexible front of the holder cushions the markers and the

- hand from shock, resulting in less marker breakage and hand fatigue
- Delrin, brass and aluminum construction, virtually indestructible

- Sturdy, easy to replace leather wrist strap is included



PART NO.	DESCRIPTION	CASE QTY.
85496		6

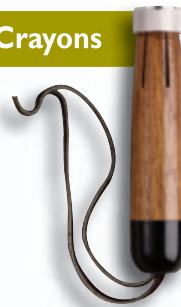
#109 PETERSON HOLDER

For Lumber Crayons

- For Scan-It Plus® 1/2" hex crayons
- For all 1/2" hexagonal markers
- Made of durable hardwood

- Protects crayon from breakage
- Comes with leather wrist strap

- 3' extensions available on special order
- Length 5"



PART NO.	DESCRIPTION	CASE QTY.
85490	#109	12
85491	w/3' extension	12

#112 PETERSON HOLDER

For 1 1/16" Round Crayons

- For Scan-It Plus® 1 1/16" round crayons
- Hardwood construction

- Protects crayon from breakage
- Comes with leather wrist strap

- Length 5"



PART NO.	DESCRIPTION	CASE QTY.
85489	#112	12

SPECIALTY MARKERS

Markers as individual
as your job.



Whether marking metal surfaces for fabrication, car windows or tires for identification purposes, or making temporary marks on wood, plastic or cardboard, Markal has the marker for you.

For clean, accurate, highly visible marks, Markal's all-purpose markers like the Trades Marker®, China Markers and Carpenter's Pencils are the perfect solution.

Silver-Streak® and Red-Riter® are two choices that professionals rely on for tried-and-true results. Both mark on metal and are ideal for metal layout and fabrication work.

When in need of temporary marks at an economical cost, Markal's Soapstone and Railroad Chalk are great options.

Whatever your special application, Markal has the marker for you.

SPECIALTY MARKERS

TRADES MARKER® ALL-PURPOSE **Marks Plastic, Glass, Metal, Wood, Cardboard & Paper**



- Retractable grease pencil offers more convenience and longevity than a standard china marker
- Marks on plastic, glass, wood, metal, china, cardboard and paper
- Marks won't rub off and are weather-resistant
- Push-button holder advances the stick as needed
- Needs no sharpening, eliminates the hassles found with the old paper-wrapped china markers
- Handy pocket clip keeps it in your pocket
- Available in 5 bright colors



PART NO.	COLOR	CASE QTY.
96000	One Holder and 5 Refills	24
Refills		
96009	Orange, 6 Pack	24
96042	White, 6 Pack	24
96043	Yellow, 6 Pack	24
96044	Black, 6 Pack	24
96045	Red, 6 Pack	24

CHINA MARKER



- The economical solution for marking on paper, cardboard, plastic, wood, glass, ceramics and some metals
- Moisture-resistant
- Smooth writing
- High-visibility colors
- Non-toxic pigments
- Marks on porous and non-porous surfaces

Paper-Wrapped Marker

PART NO.	COLOR	CASE QTY.
96010	White	72
96011	Yellow	72
96012	Red	72
96013	Black	72
96014	Crimson	72
96015	Blue	72
96016	Green	72



CARPENTER'S PENCIL **Clean, Accurate Marks on Wood & Other Surfaces**



- Premium quality pencils perfect for marking on cardboard, paper, wood and plastic
- Flat lead design for easier marking
- Available in soft, medium and hard lead to best fit your job
- Uses #106 holder (p. 32)
- Length: 7"

PART NO.	HARDNESS	CASE QTY.
96927	Hard lead	144
96928	Medium lead	144
96929	Soft lead	144



SPECIALTY MARKERS

SILVER-STREAK® METAL MARKER

For Metal Layout and Fabrication



- Available in flat and round sizes
- Marks on all types of metal surfaces
- Ideal for metal layout and fabrication work
- Marks won't rub off like soapstone
- Marks are resistant to torch flames
- Durable metal and plastic holders prevent breakage
- Holders include pocket clip
- Round holder features a built-in sharpener
- Available only as carded product



PART NO.	SHAPE	CASE QTY.
96004	Flat	24
96006	Round	24
Refills		
96018	Flat, 25 Pack	24
96002	Flat, 100 Pack	24
96007	Round, 6 Pack	24
Holders		
96017	Flat, 10 Pack	12

RED-RITER® METAL MARKER

Fineline Marking for All Metal Surfaces



- Ideal for metal layout and fabrication work
- Marks won't rub off like soapstone
- Marks are resistant to torch flames
- High visibility on aluminum and stainless steel
- More visible through filter plates
- No sharpening necessary
- Includes handy pocket clip holder
- Available only as carded product



PART NO.	SHAPE	CASE QTY.
96005	Flat	24
Refills		
96019	25 Pack	24
Holders		
96017	Flat, 10 Pack	12

SOAPSTONE

Temporary Marking for Metal Surface Welding



- Made of all-natural soapstone for superior marking
- Marks will not contaminate welds and are easily removed
- Available in flat, round and square shapes; holders available for the flat and round sizes
- *Uses Soapstone Holders:
 - All-metal construction for long worklife
 - Prevents breakage
 - Allows full use of each soapstone marker
 - Handy pocket clip
 - Length Flat 5-3/4"
 - Length Round 5-1/4"



PART NO.	SIZE	CASE QTY.
80129	5" x 1/2" x 3/16" flat	432
80130	5" x 1/4" round	432
80131	5" x 1/4" x 1/4" square	432
Holders		
80140	For flat soapstone	12
80141	For round soapstone	12

*Holders sold separately

SPECIALTY MARKERS

TYRE MARQUE® RUBBER MARKING

Ideal for Temporary Tire Marking

- Ideal for temporary marking on many surfaces, including tires
- Marks easily on wet or cold surfaces
- Lead-free, zinc-free
- Brighter, smear-resistant colors
- Marks can be painted over
- Longer marking mileage
- Marking range: -20°F to 130°F (-29°C to 24°C)



PART NO.	COLOR	CASE QTY.
Size: 1/2" x 4-5/8"		
51420	White	144
51421	Yellow	144
51422	Red	144

ZEPHYR® PAINTSTIK® MARKER

Glass Marker

- Water soluble for easy removal
- Leaves no residue or ghosting on glass
- Ideal for temporary markings
- Marks automobile glass, plastic, glass, painted metal, sheet steel, polished aluminum, car bumpers, tires and exotic metals
- More water-resistant than the WS-3/8 Paintstik®, yet still water soluble
- Marking range: -50°F to 150°F (-46°C to 66°C)



PART NO.	COLOR	CASE QTY.
Size: 11/16" x 4-3/4"		
51321	Yellow	144

LACQUER-STIK®

Highlighter Fill-in Paint

- Specially formulated paint in stick form designed to color-brighten stamped or engraved lines and lettering
- Ideal for metal, glass, ceramics, plastic, wood and rubber
- Paint stays flexible—expands and contracts with the surface
- Contains no solvents
- Long-lasting—will not rub off or smear
- No mess or waste—eliminates dripping brushes and paint spills
- Meets Fed. Spec. TT-F-325a



PART NO.	COLOR	CASE QTY.
Size: 3/8" x 4-1/4"		
51120	White	144
51121	Yellow	144
51122	Red	144
51123	Black	144
51131	Gold	144

RAILROAD CHALK

Ideal for Temporary Marks on Most Surfaces

- Marks on metal, wood, concrete, cardboard, rubber, plastic, plus much more
- Tapered shape makes the chalk easy to hold
- Makes broad, easy-to-read marks due to large 1" wide by 4" long stick
- Size: 1" x 4"



PART NO.	COLOR	CASE QTY.
Size: 1" x 4"		
80500	White	576
80501	Yellow	576
80502	Red	576
80505	Blue	576
80506	Green	576

TEMPERATURE INDICATORS



Precision temperature indicators



33% Bigger and Stronger



The welder's craft demands precise measurement of metal surface temperatures, and Markal has the welder covered, with the Thermomelt® family, available in 88 Fahrenheit ratings up to 2200°F and 29 Celsius ratings up to 1200°C, with consistent accuracy within ± 1%.



Markal's Thermomelt® temperature indicator with superior break-resistance is the industry's largest, longest-lasting stick, which reduces costs and downtime.

Thermomelt® comes through when the heat is on, at any temperature!

TEMPERATURE INDICATORS

THERMOMELT®

Industry's Longest-Lasting Stick

- Accurate, fast, low-cost method for measuring surface temperatures
- Ideal for applications such as annealing, forging, welding, bending, forming and any place where temperature measuring is necessary
- When using, the initial mark appears dull and chalky; when desired temperature is reached, the mark quickly melts to a glossy, transparent-appearing liquid
- Accurate to within $\pm 1\%$ of rated temperature
- 33% bigger and stronger; same proven reliability
- Bigger design makes Thermomelt® the industry's longest-lasting heat stick
- Bigger; break-resistant stick cuts down on replacement costs
- Improved holder features a durable metal shaft and convenient pocket clip
- Gravity advance holder protects stick and prevents it from slipping back inside
- Size: 5" long
- Meets ANSI/ASME Code B32.1 & B31.3, AWS D1.1 and ASME Code Sec. I, III and VII, NIST traceable

AVAILABLE IN THESE 88 EXACT TEMPERATURE RATINGS FROM 100°F TO 2200°F (38°C TO 1204°C)

TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE		
F	C	STICK	F	C	STICK	F	C	STICK	F	C	STICK
100	38	86400	269	132	86580	463	239	86778	1250	677	86985
109	43	86409	275	135	86589	475	246	86787	1300	704	86994
113	45	86418	282	139	86598	488	253	86796	1350	732	87003
119	48	86427	288	142	86607	500	260	86805	1400	760	87012
125	52	86436	294	146	86616	525	274	86814	1425	774	87021
131	55	86445	300	149	86625	550	288	86823	1450	788	87030
138	59	86454	306	152	86634	575	302	86832	1480	804	87039
150	66	86463	313	156	86643	600	316	86841	1500	816	87048
163	73	86472	319	159	86652	625	329	86850	1550	843	87057
175	79	86481	325	163	86661	650	343	86859	1600	871	87066
182	83	86490	331	166	86670	700	371	86868	1650	899	87075
188	87	86499	338	170	86679	750	399	86877	1700	927	87084
194	90	86508	344	173	86688	800	427	86886	1750	954	87093
200	93	86517	350	177	86697	850	454	86895	1800	982	87102
206	97	86522	363	184	86706	900	482	86904	1850	1010	87111
213	101	86526	375	191	86715	950	510	86922	1900	1038	87120
219	104	86535	388	198	86724	1000	538	86931	1950	1066	87129
225	107	86544	400	204	86733	1022	550	86940	2000	1093	87138
238	114	86553	413	212	86742	1050	565	86949	2050	1121	87147
250	121	86562	425	218	86751	1100	593	86958	2100	1149	87156
256	124	86569	438	225	86760	1150	621	86967	2150	1177	87165
263	128	86571	450	232	86769	1200	649	86976	2200	1204	87174

Note: 12 THERMOMELT® Sticks are considered a case for combination with other Markal® products. Temperatures can be assorted within 1 dozen/box.

THERMOMELT® STIKS IN 29 EXACT CELCIUS TEMPERATURES*

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

* accuracy range for Celsius temperature is 3%

MARKER HOLDERS

#100

Wooden Holder

PART NO.	DESCRIPTION	CASE QTY.
85500	#100	12

- 4" wooden holder for hot surface Paintstik® markers
- Works with markers: H, HT, HT-34, HT-40, J, X-5
- Length 4"



#101

1 1/16" Diameter Holder

PART NO.	DESCRIPTION	CASE QTY.
85000	#101	12

- 5" metal holder for Paintstik® markers
- Works with markers: B, B-E, BL-W, C, E, F, N, O-10, P, B-L, M, M-10
- Length 5"
- All-metal construction for long worklife



#102

1 1/16" Push-Button Holder

PART NO.	DESCRIPTION	CASE QTY.
85100	#102	12

- 6" push-button metal holder for Paintstik® markers
- Works with markers: B, B-E, C, E, F, N, O-10, P, B-L, M, M-10, BL-W
- Length 6"
- All-metal construction for long worklife
- 2' and 3' extensions are available on special order



#102K

For Hot Surface Markers

PART NO.	DESCRIPTION	CASE QTY.
85200	#102K	12
85210	w/2' extension	12
85220	w/3' extension	12

- Metal holder for K, HT-75, HT King Size and HT-34 King Size Paintstik® markers
- 2' and 3' extensions are available on special order
- Length 7-1/4"
- All-metal construction for long worklife



MARKER HOLDERS

#106

For Carpenter's Pencil and Lumber Crayon

- Unique dual design holds the #200 or #500 Lumber Crayons, Pro-EX® Crayons, and Markal® Carpenter's Pencil
- Durable, lightweight construction
- Length 5"
- Handy on construction sites



PART NO.	DESCRIPTION	CASE QTY.
85401	#106	12

#107

For 3/8" Markers

- Push-button metal holder for B-3/8 and WS-3/8 Paintstik® markers
- 2' and 3' extensions are available on special order
- Length 5-1/2"
- All-metal construction for long worklife

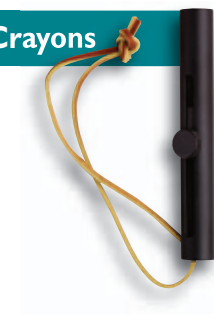


PART NO.	DESCRIPTION	CASE QTY.
85300	#107	12
85310	w/2' extension	12
85320	w/3' extension	12

#108 HOLDER

For Hex Crayons

- For all 1/2" hexagonal markers
- Durable aluminum construction
- Push-button operation
- Protects crayon from breakage
- Comes with leather wrist strap
- 2' and 3' extensions available on special order
- Length 6"



PART NO.	DESCRIPTION	CASE QTY.
85400	#108	12

#111

For Hot Surface Paintstiks®

- 11" push-button metal holder for hot surface markers: H, HT, HT-34, HT-40, J, X-5 Paintstik® markers
- 2' and 3' extensions are available on special order
- Length 11"
- All-metal construction for long worklife



PART NO.	DESCRIPTION	CASE QTY.
85700	#111	12
85710	w/2' extension	12
85715	w/3' extension	12

PLUMBING & CHEMICAL PRODUCTS

A Leader in Chemical Product Solutions

LA-CO Industries, Inc. has been making quality plumbing and chemical products for the past seven decades. From Slic-Tite® and LA-CO® Regular Flux for the professional plumber, to E-Z Break® for the industrial chemical processing plant, LA-CO manufactures products to fit the needs of today's industry. For a full list of available products please refer to our Plumbing & Chemical Products Catalog.

SLIC-TITE® PASTE WITH PTFE

Premium Thread Sealant

- Contains more PTFE particles for greater sealing power
- Use on metal, PVC, CPVC and ABS plastic pipe threads
- For sealing water, air, steam, natural gas, LP gas, refrigerants, ammonia, gasoline, ethanol and oil
- Do not use on oxygen service; use Slic-Tite® PTFE Thread Tape or Oxytite® Paste
- Washes off hands and clothing easily
- Non-toxic, non-drying
- Sealing temperature range: -50°F to 500°F (-46°C to 260°C)

- Working pressures: 3,000 PSI (204 BAR) for gas, 10,000 PSI (680 BAR) for liquids
- USDA approved for use in federally inspected meat and poultry plants
- **New** – Noveon approved



PART NO.	SIZE	CASE QTY.
41209	1/4 pt. BIC	12
42009	1/4 pt. BIC	24
41219	1/2 pt. BIC	12
42019	1/2 pt. BIC	24
42012	1 pt.	24
42029	1 pt. BIC	24
42013	1 qt.	12
42049	1 qt. BIC	12
42014	1 gal.	4
42015	5 gal.	1
42069	55 gal.	1
Dozen Display Pack Tubes		
42002	1-1/2 oz.	24

BIC = Brush in Cap



REGULAR FLUX PASTE

Cleans As It Solders

- Super detergent action cleans as it solders
- Water soluble for faster rinsing from pipe lines
- Contains no zinc chloride
- Use with all lead-free and common soft solders
- For use on copper, brass, galvanized iron, lead, zinc, tin, silver, nickel, mild steel, terne plate and malleable iron

- Meets Mil. Spec. Mil-F-4995 Type II
- Meets ASTM B813
- All weather



PART NO.	SIZE	CASE QTY.
22101	2 oz.	48
22104	4 oz.	48
22194	4 oz. BIC	48
22107	1 lb.	24

BIC = Brush in Cap



E-Z BREAK® ANTI-SEIZE COMPOUND

Copper Grade

- Copper-based anti-seize and lubricating compound
- Recommended for coating nuts, bolts, valves, flanges, splines for easy break out after years of service
- Resists rust and corrosion
- Meets Mil. Spec. Mil-A-907E
- Authorized by USDA for use in federally inspected meat and poultry plants

- Temperature: to 1800°F (982°C)



PART NO.	SIZE	CASE QTY.
08924	4 oz. BIC	24
08910	10 oz. BIC	24
08916	14 oz. Aerosol	12
08907	16 oz. BIC	24
08925	8 lbs.	4
08950	42 lbs.	1
08969	425 lbs.	1

BIC = Brush in Cap

E-Z BREAK® ANTI-SEIZE COMPOUND

Nickel Grade

- Contains fine particles of nickel and other additives
- Contains no copper
- Resists rust and corrosion
- Makes disassembly easy, even after years of service

- Helps prevent galling of stainless steel threads
- Temperature: to 2600°F (1427°C)



PART NO.	SIZE	CASE QTY.
08971	8 oz. BIC	24
08972	16 oz. BIC	24
08973	8 lbs.	4
08978	42 lbs.	1
08979	425 lbs.	1

BIC = Brush in Cap

PLUMBING & CHEMICAL PRODUCTS

COOL GEL®

Heat Barrier Spray

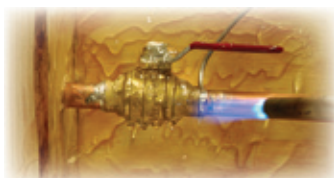


- Helps prevent heat damage to components and surrounding materials during soldering, brazing and welding
- Protects painted and finished surfaces from discoloration due to adjacent torch operations
- Unique gelled formula sticks to surfaces without dripping or running off
- Clear, non-staining gel leaves no residue, eliminating clean-up

- Safe, non-toxic, harmless to skin and odorless
- Reduces danger of fire to surrounding surfaces such as rubber and plastic seals and gaskets
- Convenient trigger spray



PART NO.	SIZE	CASE QTY.
11513	16 oz.	24
11509	32 oz.	12
Dozen Display Box		
11524	2 oz.	40



With Cool Gel®



Without Cool Gel®

ZOOM SPOUT® OILER

Lubricating Oil for General Applications

- Premium-grade, all-purpose, turbine-grade lubricating oil for general applications
- Use on rotating and reciprocating equipment, bearings, motors and slides

- Flexible telescoping-spout extends 7" for difficult-to-reach areas



PART NO.	SIZE	CASE QTY.
Dozen Display Box		
79704	4 fl. oz.	24

SLIC-TITE® PTFE THREAD TAPE

High-Density, Premium-Grade

- Thickness 3 mils
- High-density
- Provides a highly resistant seal on pipe threads for all types of service
- Suitable for use with solvents, chemicals, oxygen and on food lines
- Non-toxic

- Permits easy disassembly, even after many years
- Meets Mil. Spec. T-27730A
- Sealing temperature range: -450°F to 550°F (-268°C to 288°C)
- Pressure: to 2,000 PSI (136 BAR)



PART NO.	SIZE	CASE QTY.
Dozen Display Box		
44080	1/4" x 300"	12
44081	1/4" x 600"	12
44082	1/2" x 300"	12
44083	1/2" x 600"	12
44101	1/2" x 600"	144
44084	1/2" x 1200"	12
44085	3/4" x 300"	12
44086	3/4" x 600"	12
44087	1" x 300"	12
44088	1" x 600"	12
Carded - 1 per Card		
44003	1/2" x 600"	12

PTFE THREAD TAPE

Contractor-Grade

- Thickness 3 mils
- Contractor-grade, low-density
- Provides a highly resistant seal on pipe threads for all types of service
- Suitable for use with solvents, chemicals, oxygen and on food lines
- Non-toxic

- Permits easy disassembly, even after years of service
- Meets Mil. Spec. T-27730A
- Sealing temperature range: -450°F to 550°F (-268°C to 288°C)
- Pressure: to 2,000 PSI (136 BAR)



PART NO.	SIZE	CASE QTY.
44070	1/4" x 520"	144
44071	1/2" x 260"	144
44072	1/2" x 520"	144
47272	1/2" x 520"	72
44073	1/2" x 1296"	144
44074	3/4" x 260"	144
44075	3/4" x 520"	144
44076	3/4" x 1296"	144
44077	1" x 260"	144
44078	1" x 520"	144
44079	1" x 1296"	144