



Product Information Bulletin

64 Outwater Lane, Garfield, NJ 07026 Ph: 973-340-7889 | Fax: 973-340-7809

System #4 High Temp. Pipe Markers (Wrap Around / Strap On)

High Temp. Markers

Compliance:

- ANSI / ASME A13.1-2020 "Scheme for the Identification of Piping Systems"
- ANSI Z535.1 "Safety Color Code"
- NFPA 99 Health Care Facilities Code
- **LEED Compliance:** This product is in compliance with the Standards set forth by the South Coast Air Quality Management District (SCAQMD) Rule #1168 and the Green Seal Standard, GS-36 for Commercial Adhesives pertaining to Volatile Organic Compounds (VOC). The adhesive backing on this product contains < 4.4 grams / Liter VOC.

Material:

Sizes 4A, 4B, 4E and 4F are constructed using a 5 mil polyester with a 1 mil polyester overlam. These markers are affixed to themselves with a clear high performance Tedlar sealing strip. Sizes AR4B, AR4E and AR4F offer 360° visibility.

Sizes 4G and 4H are constructed using a 2 mil (.002) polyester with a 1 mil (.001) acrylic adhesive. This marker is then mounted to a .032 thick high temperature white aluminum carrier. Size AR4H is secured to pipes using stainless steel strapping or nylon straps. (S.S. Strapping & nylon straps are sold separately)

Use:

Identify piping systems of industrial environments that are expected to reach higher temperatures or high exposure to chemicals. Arrows & legends are printed repeatedly in opposite directions allowing the marker to be applied in any direction achieving proper reading while indicating pipe content flow.

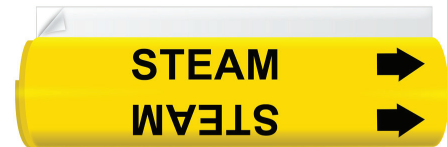
Chemical Resistance

C1-10 Alkanes: Good
Water: Excellent
10% Caustic: Excellent
50% Caustic: Good
Methanol: Excellent
Hydrochloric Acid: Excellent
Fuel Oil: Excellent
Acetic Acid: Good
Acetone: Good
Abrasion Resistance: Good

Surface Preparation: None
Outdoor Durability: 5 to 8 years
 Mid Continental US

Service Temp: -40°F to 248°F
 (-40°C to 120°C)

Storage Stability: Indefinite shelf life at conditions of 70°F (21°C) and 60% RH.



1 Wrap Around Markers
 (Styles 4A, 4B, 4E & 4F)
 With Clear Adhesive Strip



2 Strap On Marker
 (Styles 4G & 4H)

On Aluminum Carrier

SIZE CHART

MARKER STYLE	OUTSIDE PIPE DIAMETER	MARKER WIDTH	CHARACTER SIZE
4A*	1/2" - 1" (13 - 25 mm)	8" (203 mm)	1/2" (13 mm)
4B*	1-1/8" - 2-3/8" (29 - 60 mm)	8" (203 mm)	3/4" (19 mm)
4E*	2-1/2" x 4-3/4" (64 - 111 mm)	12" (305 mm)	1-1/4" (32 mm)
4F*	5" - 7-7/8" (127 - 200 mm)	12" (305 mm)	1-1/4" (32 mm)
4G**	8" - 10" (203 - 254 mm)	24" (610 mm)	2-1/2" (64 mm)
4H**	Over 10" (Over 254 mm)	32" (813 mm)	3-1/2" (89 mm)

* Supplied with clear high performance sealing strip.
 ** Strap on mounting method (S.S. strapping & nylon ties sold separately)

STANDARD COLORS

Flammable & Oxidizing Fluids	Potable, Cooling, Boiler Feed, Waters
Compressed Air	Fire Quenching Fluids
Toxic, Corrosive Fluids	Combustible Fluids
NFPA 99 Colors	NFPA 99 Colors
NFPA 99 Colors	NFPA 99 Colors
NFPA 99 Colors	NFPA 99 Colors

DATE: / /

JOB: _____

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SYSTEM #4 PIPE MARKER CLEAR POLYESTER OVERLAMINATE

- 1.0 mil clear polyester has excellent abrasion, humidity, chemical and solvent resistance
- Protects the underlying graphics from harsh environmental conditions
- Provides a high-gloss appearance to printed graphics
- Adhesive exhibits good clarity and cold-flow properties, resulting in good wet-out performance

PRODUCT DATA	VALUE	TEST METHOD	
Physical Properties			
Thickness (Mils[microns])	Film	1.0 (25) +/- 10%	
	Adhesive	0.9-1.0 (23-25) +/- 0.1 (3)	
	Liner	1.0 (25) +/- 5%	
Dimensional Stability (%)	No Shrinkage Observed	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)	
Adhesion Properties			
Ultimate Peel from	Average	ASTM D 903 (Modified for 72 hour dwell time)	
	Oz/In (N/m)		
	Acrylic		45 (495)
	Glass		29 (319)
	Metal		41 (451)
	Polyester		43 (473)
	Polyethylene		24 (264)
	Polyethylene Corona Treated		35 (385)
	Polypropylene		5 (55)
	PVC		46 (506)
	Stainless Steel		34 (374)
	Styrene		44 (484)
Expected Shear		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load	
	Room Temp (hours)		25
Tack (gm/sq cm)	320	ASTM D 2979	
Service Temperature Range	-40°F to 248°F (-40°C to 120°C)		
Minimum Application Temperature	50°F (10°C)		
Storage Stability	Two years when stored at 70°F (21°C) and 50% RH		

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