



MS-995 MAXILAR™ POLYESTER PIPE MARKERS

Technical Data

Description

MS-995 pipe markers are designed to identify piping in chemically harsh plant environments. The markers are constructed of a layer of polyester film and a layer of protective film, which are laminated together to form a single construction. The printed graphics are between the two layers of film to protect them from the effects of the environment. Legends can include pipe origin and destination, line number, and bar codes in addition to pipe contents.

The protective top layer provides the maximum in ultra violet protection against sun fading and other outdoor effects. Subsurface printed graphics protects printing and provides excellent resistance to chemicals and liquors.

Markers are mechanically applied either by wrapping completely around the pipe or strapping larger sizes onto the pipe surface with stainless steel straps or, if non-metallic fasteners are required, sturdy nylon straps. The wraparound markers are sealed in place with an adhesive sealing strip when installed. Material is self-extinguishing when exposed to open flames per UL-94HB test method.

MS-995 Markers are designed to meet ASME A13.1-2015 "Scheme for the Identification of Piping Systems" except styles J, K, L & N, which do not meet the required marker size and letter height. For text height to meet ASME A13.1, please see MS-995 Maxilar™ Rigid Curved Carrier Pipe Markers (MB, MBF, MBJ).

Physical and Chemical Characteristics

Standard Material:	.005" (0.127 mm) mil polyester and .002" (0.050 mm) protective top layer
Service Temperature:	-40°F to +250°F (-40°C to 121°C)
Water Resistance:	Excellent
Expected Outdoor Durability:	5 Years
UV Resistance:	Excellent
Density:	1.37
Tensile Strength:	22,000 PSI
Shrinkage:	3% at 190°C for 5 minutes storage
Stability:	Indefinite when stored at room temperature with moderate humidity
Chemical Resistance:	Immersion for 5 cycles of 10 minutes; Water: Excellent; 10% Caustic: Excellent; 50% Caustic: Excellent; Methanol: Excellent; Hydrochloric Acid: Excellent; Fuel Oil: Excellent; Acetic Acid: Excellent; Acetone: Good

Information on physical and chemical characteristics is based on tests we believe to be reliable. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material for their specific application.





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Marker Sizes

Outside Pipe Diameter	Marker Length	Letter Height	Style
3/8" – 1/2"	3"	1/4"	TM
1/2" – 1"	8"	1/2"	A
1-1/8" – 2-1/4"	8"	3/4"	B
2-1/2" – 4-3/4"	12"	1-1/4"	D
5" – 7-7/8"	12"	1-1/4"	E
8" – 10"	12"	1-1/4"	J
11" – 12"	12"	1-1/4"	K
13" – 15"	12"	1-1/4"	L
16" – 18"	12"	1-1/4"	N
Over 8"	32"	3-1/2"	M

*MS-995 Style M Carriers are used for piping over 8" and are 4-1/2" x 33" long. Style MF also available for piping 5" through 7-7/8" and are 2-1/2" x 18".

Designation of Colors (ASME A13.1-2015 & ANSI Z535-2017)

Designation of Colors — ASME A13.1-2015 & ANSI Z535-2017 Standards		
Classification	Color Scheme	
Defined Applications		
Fire quenching liquids	White text on red	Sample
Toxic and corrosive fluids	Black text on orange	Sample
Flammable fluids	Black text on yellow	Sample
Combustible fluids	White text on brown	Sample
Potable, cooling, boiler feed and other water	White text on green	Sample
Compressed air	White text on blue	Sample
Undefined Applications		
Defined by user	White text on purple	Sample
Defined by user	Black text on white	Sample
Defined by user	White text on gray	Sample
Defined by user	White text on black	Sample

*See below for ASME (ANSI) A13.1 1996 spec colors
 *Custom color combinations (background/text) are available





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Designation of Colors (ANSI/ASME A13.1-1996)

Designation of Colors — ANSI/ASME A13.1-1996 Standards		
Classification	Color Scheme	
Materials Inherently Hazardous		
Flammable or Explosive, Chemically Active or Toxic, Extreme Temperature or Pressures, Radioactive	Black text on yellow	Sample
Materials Inherently Low Hazard		
Liquid or Liquid Admixture (non-hazardous materials)	White text on green	Sample
Gas or Gaseous Admixture (non-hazardous materials)	White text on blue	Sample
Fire Quenching Materials		
Water, Foam, CO2, Halon, etc.	White text on red	Sample

Created on 7/1/2015

