SETON
Signs, Labels & Solutions for a Safer Workplace

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PRODUCT DATA SHEET

Opti-Code™ Pipe Markers

Description: Seton Opti-Code™ Pipe Markers are made of self-adhesive, indoor/outdoor grade vinyl with ANSI specifications for background and letter colors, length of color field and letter height.

Use: Seton Opti-Code™ Pipe Markers are designed for use on pipes from 3/4" O.D. to over 10" O.D. and for use indoors and outdoors.

Compliance: Seton Opti-Code™ Pipe Markers meet ASME/ANSI A13.1-2007 standards and meets ANSI specifications for background and letter colors, length of field and letter height.

Standard Legend Colors: Black or White

Standard Background Colors: Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White and Yellow

Thickness (ASTM D 1593): Total 0.005 in. (0.125mm).

Gloss: 60 Gardner Units.

Standard Sizes/Dimensions:

Marker Size	Fits Pipe Outer Diameter	Length Color Field	Letter Height
8SM	.75" - 1.375" (19mm - 35mm)	8" (203mm)	.5" (13mm)
8LG	1.5" - 2.375" (38mm - 60mm)	8" (203mm)	.75" (19mm)
12	2.5" - 7.875" (64mm - 98mm)	12" (305mm)	1.25" (32mm)
24	8" - 10" (203mm - 254mm)	24" (610mm)	2.50" (64mm)
32	over 10" (over 254mm)	32" (813mm)	3.50" (89mm)

Adhesive Properties:
Adhesion to steel (PSTC-1)
15 min. dwell (Avg)—75 oz/in. (82 N/100 mm)
Ultimate (72 hrs. dwell) (Avg)—116 oz/in. (127 N/100 mm)
Tack (ASTM-2979) (Avg)—800g (8 N)
Drop Shear (PSTC-7) (Avg)—4 Hrs

Date: / / Job: _____

Contractor _____

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Opti-Code™ Pipe Markers (continued)

Abrasion Resistance: CS-17 Wheels, 1000 g. wts.

(Method 5306 of U.S. Federal Test Method Std. No. 191A): Legend withstands up to 700 cycles. Substrate withstands up to 8000 cycles.

Service Temperature: -40°F to 180°F (-40°C to 82°C).

Average Outdoor Durability: 5 years (Average expected outdoor life of product will depend on user definition of failure, climactic conditions, mounting techniques, and material color).

Chemical Resistance:

Reagent	7 day Immersion	Dip Test	Rub Test
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% HCL	F	NE	NE
10% HCL	NE	NE	NE
50% NaOH	F	NE	NE
10% NaOH	F	NE	NE
Gasoline	F	NE	F
Turpentine	F	NE	F
Glacial Acetic Acid	F	NE	F
5% Acetic Acid	NE	NE	NE
Cellosolve Acetate	F	F	F
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Methyl Ethyl Ketone	F	F	F
Acetone	F	F	F
Methanol	F	NE	F
1,1,1, Trichloroethane	F	F	F
IPA (Isopropanol)	F	NE	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Mineral Spirits	F	NE	NE
Diesel Fuel	F	NE	F
Heptane	F	NE	F
Toluene	F	F	F
Alconox	F	NE	NE
Kerosene	NE	NE	NE
Water	NE	NE	NE

NE: No Effect **F:** Failed

7 Day Immersion: Immersed in reagent for 7 days.

Dip Test: Five 10 minute dips in reagent with 30 minute recovery.

Rub Test: Rubbed sample for one minute with swab soaked in reagent.

Shelf Life: 1 year when stored at 70°F (21°C) and 40% to 50% R.H.