

Product Data Sheet

NO. 11221 - 12/19

HEAVY DUTY MARKING PEN

VALVE ACTION

PRODUCT NUMBERS:

1221 - RED
1222 - YELLOW
1226 - BLACK
1227 - WHITE

I. GENERAL DESCRIPTION

Features: The Aervoe Heavy Duty Marking Pen is designed for rugged industrial use. This pen offers valve action, with a medium point fiber tip, all in a comfortable and functional barrel shape. Provides a highly visible, permanent mark.

Benefits: This pen offers a fast drying mark that can be applied to many surface types and materials. The cap is designed to be air tight in order to increase the life and performance of the pen.

Application: Use on metal, plastic, glass, or wood. These surfaces may include conduit, ABS, PVC, motor parts, auto parts, machinery, cable, lumber, wire, or windows.

Directions: Shake well with cap on. Press tip down until inked. Write as necessary and replace cap when finished. Store pen flat, not on end, to prevent dry out and clogging.

Limitations: Please refer to the Safety Data Sheet for specific information on material hazards.

Packaging:

Pen:	563 mm shell	9.3 - 13.6 grams net wt. (10 ml)
Case (4 dozen pens):		5 lbs. (2.26 kg) 0.15 CF (0.004 CM)

II. CHARACTERISTICS & PROPERTIES (Average for all colors)

Specifications: ASTM D 4236

Appearance:

Gloss at 60°	10 - 60
Class	Not applicable
Line width	2.3 mm (medium)

Coverage:

Theoretical—at 1 mil dry	400 sq. in./marker
Practical—at 1/2 mil dry	700 sq. in./marker

Drying Schedule: (At 77°F [25°C], 50% Humidity at 1 mil, dry)

To touch	20 seconds
To handle	20 seconds
Full cure	20 seconds
To recoat	20 seconds

Performance and Chemical Properties

Weight per gallon	8.0 - 12.3
Specific gravity	1.0 - 1.5
Flammability:	Flammable
Flash Point	73°F (23 °C)
Operating temperature range	20° to 100°F (-7° to 38°C)
Interior durability	Good
Exterior durability	Good
Temperature resistance	Not applicable
Color Fastness	Color dependent
Adhesion	Good
Salt spray corrosion	OK
Mineral spirits resistance	Poor
Gasoline resistance	Poor
Motor oil resistance	Good

Base Materials:

Resin system	Hydrocarbon
Solvent	Isopropanol

III. SHIPPING, STORAGE AND HEALTH

UN number	UN1210
Proper Shipping Description	Printing Ink
Hazard Class	3
Packing Group	III
Limited Quantity	Yes
Warehouse storage level number	Flammable liquid class 1-B
Storage temperature	32° to 120°F (0° to 49°C)
Shelf life	1 year plus

HMIS ratings

Health	0
Fire	2
Reactivity	0

IV. MISCELLANEOUS

Contains no Ozone Depleting Substances (O.D.S.)

V. WARRANTY

1-year warranty to the original registered owner on all products from date of purchase. User returns, exchanges and defective refunds must be made with the original place of purchase. Because Aervoe cannot control Buyer's handling or use of product, Aervoe makes no warranty expressed or implied when not used or stored in accordance with directions. Aervoe shall not be liable for cost of labor, incidental or consequential damages, and this warranty is limited to replacement or repair of product or credit of purchase.