



PRODUCT DATA DEVELOPER D-70

PENETRANT PROFESSOR APPROVED

Met-L-Chek® D-70 is a nonaqueous inspection developer used with both fluorescent and visible penetrants to enhance detection of surface cracks and porosity. This form of developer offers the highest detectability and is used for critical inspections where the finest discontinuities must be found. D-70 is applied by spraying, either from an aerosol can or by conventional spray gun. It dries quickly and produces a smooth, uniformly white coating. The dried developer film is easily removed from the part surface with water after inspection. D-70 is used in field applications as well as production line inspection booths, where the inspector, sometimes is unsure about an indication and wishes to "prove" it with the aid of a solvent developer. The developer particles will settle out upon standing, requiring agitation prior to application. The solvent carrier is flammable and use around open flames should be avoided. D-70 is listed on the Qualified Products List for AMS-2644 as a form "d" & "e" developer. It is low in Sulfur, Sodium, Chlorine, Fluorine and other Halogens, making it safe for use on Titanium and high Nickel alloys found in nuclear components. D-70 is approved for use by major aerospace OEM's, such as Boeing, GE, Honeywell, Pratt & Whitney, and Rolls-Royce.

Shelf Life - 5 years from batch approval date

TYPICAL PHYSICAL PROPERTIES

FORM	Liquid
FLASH POINT	11.6 °C (53°F) TCC
DENSITY	856 g/L (7.1 lbs./Gal.)
DRY COATING	Smooth, white
FLUORESCENCE	None
REMOVABILITY	Complete

SPECIFICATIONS [AMS -2644](#)

- [AMS-2647](#)
- [ASME B & PV code Sec. V](#)
- [ASTM E-165](#)
- [ASTM E-1417](#)
- [PMC 4357-7](#)
- [RR CSS 232](#)

CORROSION:

Carbon Steel:	None
Nickel Steel:	None
Aluminum:	None
Magnesium:	None
Titanium:	None

<u>NSN #'s</u>	12 oz. 6850-00-160-8480 - Type II
	12 oz. 6850-00-963-5408
	12 oz. 6850-01-265-7234- Type I
	1 Gal. 6850-01-265-2742
	1 Gal. 6850-01-265-2743 - Type II
	5 Gal. 6850-00-782-2728
	5 Gal. 6850-01-264-8679 - Type I
	5 Gal. 6850-01-264-8680 - Type II

ANALYSIS:

Sulfur:	< 200 ppm
Chloride:	< 200 ppm
Fluoride:	< 50 ppm
Sodium:	< 350 ppm
Mercury:	None
OLDS:	None
PCB's:	None

Health- 1

Flammability- 3

Reactivity- 0

DOT: Bulk -Isopropanol, class 3, UN 1219, packing group II, flammable liquid.

DOT: Aerosol - Consumer Commodity ORM-D

DISPOSAL: Flammable Liquid.

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Wear protective gloves and eye wear.

Avoid breathing.

Avoid skin contact.

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