



PRODUCT DATA
PENETRANT
VP-31A

PENETRANT PROFESSOR APPROVED

Met-L-Chek® **VP-31A** is a **Type II**, visible red, **Methods B & C**, dye penetrant. It is designed for general metalworking, welding, automotive, and nuclear inspection applications. It is listed on the Qualified Products List for **AMS 2644**. It meets the requirements of **ASME Boiler and Pressure Vessel Code**, **ASTM E-165**, and **ASTM E-1417** for penetrant inspection materials. It is low in Sulfur, Chlorine, and other Halogens, making it safe for use on Titanium and high Nickel alloys for nuclear applications.

Shelf Life - 5 years from batch approval date

TYPICAL PHYSICAL PROPERTIES

FORM	Red liquid
FLASH POINT	> 93 °C (> 200°F)
DENSITY	862 g/L (7.1 lbs./gal.)
VISCOSITY	5.5 cst. @ 100°F (32°C)

SPECIFICATIONS **AMS -2644**

- ASME B & PV code Sec. V**
- ASTM E-165**
- ASTM E-1417**
- Navsea-T9074-AS-GIB-010/271**

CORROSION:

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

NSN # **1 gal. 6850-01-267-7989**
5 gal. 6850-01-223-2867

ANALYSIS:

Sulfur	< 300 ppm
Chloride	< 100 ppm
Fluoride	< 100 ppm
Mercury	None
OLDS's	None
PCB's	None

Health - 1
Flammability- 1
Reactivity- 0

Wear protective gloves & eye wear.

DOT: Bulk Not regulated

Avoid breathing.

DOT: Aerosols -Consumer Commodity ORM-D

Avoid eye & skin contact.

DISPOSAL: Nonhazardous oily liquid.

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