

ZYGLO® ZL-60D

Level 2 Water Washable Fluorescent Penetrant

General Description

Developed for testing rough machined surfaces, ZL-60D fluorescent water-removable penetrant is ideal for finding indications in a wide range of applications, including aerospace materials.

This medium-sensitivity penetrant features superior sensitivity versus other penetrants at this level, and washes off parts quickly and easily, leaving less fluorescent background – even on rough surface – for clearer indications and better inspection reliability.

ZL-60D is one of the most versatile “workhorse” penetrants, customers can use this one penetrant for a wide range of applications on a range of parts to find many different types of defects, including cracks, seams, laps, cold shuts, laminations and porosity.

Broad specification compliance further increase this penetrants flexibility. ZL-60D has excellent alloy compatibility and is safe to use on most engineering and aerospace materials, including aluminum, steel, nickel and titanium.

ZL-60D is listed on the QPL SAE AMS 2644 Qualified Product List and is approved for use by Pratt & Whitney

Benefits

Improve indication detection

- Superior sensitivity relative to other Level 2 penetrants delivers bright, high-contrast indications
- Makes indications stand out more by easily washing excess penetrants off with water
- Reduces background fluorescence, even on rough surfaces

Maximize application versatility

- Ideal for an extensive variety of part types due to Level 2 sensitivity, including aerospace materials
- Universal specification conformance and fast, even surface wetting

Maximize operator comfort and safety

- Promotes better inspection quality by providing the operator with a more comfortable work environment
- Reduces discomfort from strong odors
- Exceeds all EHS requirements



Specification compliance

- AECL
- AMS 2644
- ASME BPVC
- ASTM E1417
- ASTM E165
- Boeing BAC 5423 PSD 6-46 or 8-4
- Boeing PS-21202
- GE P3TF2
- P50YP107
- MIL-STD-2132
- MIL-STD-271
- NAVSEA T9074-AS-GIB-010/271
- Pratt & Whittney PMC 4350

Typical Properties (not specification)

Flash Point	> 200°F / 93°C
Density	0.92 g/cc / 7.65 lb/gal (926 g/L)
Viscosity (at 100°F / 38°C)	10.27 cs
NPE-Free	Yes

USE RECOMMENDATIONS

NDT Method	Penetrant Testing Fluorescent
Method(s)	A/C
Type	1
Sensitivity Level	2, medium sensitivity
Usage Temperature	40 to 125°F / 5 to 52°C
Storage Temperature	50 to 86°F/5 to 52°C
Coverage	1 gal will cover approximately 1,000 ft ² / 93 m ²

PACKAGING

20 Liters	F02003
205 Liters	F02018

APPLICATIONS

Defect location: open to surface

Ideal for:

- Castings
- Forgings
- Extrusions
- Welds
- Machined components
- Aerospace alloys
- Aluminum
- Steel
- Nickel
- Titanium

Defect examples: Cracks, Laps, Seams, Cold shuts, Delamination, Porosity

FEATURES

- Bright, high-contrast indications
- Good removability
- Excellent rough surface washability
- Water washable
- Level 2 medium sensitivity
- High flash point
- Very low odor
- Better surface wetting
- Alloy compatibility
- High thermal resistance
- High UV stability
- Very low toxicity
- Low volatility
- Optimized capillary action

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the product Safety Data Sheet, which is available at www.magnaflux.in

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