

ZL-67

Level 3 Water Washable Fluorescent Penetrant

A high sensitivity (Level 3) penetrant, ZL-67 fluorescent water washable penetrant is safe for most alloys, such as aluminum, steel, nickel and titanium, which are used in aerospace and engineering applications. ZL-67 penetrant is commonly used to find flaws in investment castings, jet engine components, and highly machined surfaces. Non-water based, ZL-67 has a high flash point for use in open tanks. Recommended developers are ZP-4B dry powder, SKD-S2 or ZP-9F solvent-based, and ZP-5B suspendible developers.

ZL-67 is listed on the QPL SAE AMS 2644 Qualified Product List and is approved for use by Pratt & Whitney.

BENEFITS

Improve indication detection

- Clear, bright, indications appear every time due to high UV and thermal stability
- Higher contrast indications form due to strong capillary action, making them easier to spot

Wide range of inspections

- Inspect a wide range of high-value components without fear of corrosion or specification non-conformance

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

More reliable, consistent inspections

- Maintain penetrant system performance over longer periods of time thanks to low volatility and high water tolerance

FEATURES

- Level 3 high sensitivity
- Water washable
- Bright, high-contrast indications
- High flash point
- Wide range of application methods
- Controlled washability
- Low odor
- Very low toxicity
- Alloy compatibility
- High water tolerance
- High thermal resistance
- High UV stability
- Optimized capillary action
- Low volatility
- QPL SAE AMS 2644 Qualified Product List
- Approved for use by Pratt & Whitney

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
- Honeywell EMS 52309
- ISO 3452-2
- MIL-STD-2132
- MIL-STD-271
- NAVSEA T9074-AS-GIB-010/271
- Pratt & Whitney PMC 4360
- QPL SAE AMS 2644

APPLICATIONS

Defect location: open to surface

Ideal for:

- Precision castings
- Precision forgings
- Machined components

Defect examples:

- Cracks
- Seams
- Porosity

PROPERTIES

Flash Point	> 200°F / 93°C
Density	0.99 g/cc / 8.24 lb/gal
Viscosity (at 100°F / 38°C)	21.06 cs
NPE-Free	Yes

USE RECOMMENDATIONS

NDT Method	Penetrant Testing, Fluorescent
Type	1
Method(s)	A / C
Sensitivity Level	3, high sensitivity
Required Equipment	UV light source
Temperature range	40 to 125°F / 4 to 52°C

PACKAGING

- 5 gal / 18.9 L pail 01-3274-40
- 20 gal / 75.7 L drum 01-3274-30
- 55 gal / 208 L drum 01-3274-45

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.com.