

ZL-67

Level 3 Water Washable Fluorescent Penetrant

A high-sensitivity Level 3 penetrant, ZL-67 fluorescent water removeable penetrant is designed to find smaller, finer indications in safety-critical components common to aerospace and engineering applications. ZL-67 penetrant is often used to find flaws in investment castings, jet engine components, and highly machined surfaces.

ZL-67 is specially formulated for strong capillary action which allows it to penetrate defects quickly and bleed out into developer faster and more completely than other penetrants for stronger, higher contrast indications that are easier for inspectors to identify, even when the defects are very fine.

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
- Non-hazardous by all modes of transportation

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
- Investment castings
- Jet engine components
- Highly machined surfaces
- Aerospace alloys
- Aluminum
- Steel
- Nickel
- Titanium

Defect examples:

- Cracks
- Seams
- Porosity

PROPERTIES

Flash Point	> 200°F / 93°C
Density	0.96 g/cc / 7.96 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
Usage Temperature	40 to 125°F / 5 to 52°C
Storage Temperature	50 to 86°F / 10 to 30°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



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