

ZL-150

Level 2 Water Washable Fluorescent Penetrant

Specially designed to reduce the cost of quality inspections, ZL-150 fluorescent water washable penetrant is ideal for finding indications in rough cast parts in high-volume dip applications. Foundries and casting houses will find this penetrant particularly useful in reducing cost while maintaining strong Level 2 fluorescent penetrant performance in sensitivity and removability.

This medium-sensitivity penetrant limits the amount of material retained on parts after dipping, also known as drag-out. Additionally, it washes off parts quickly and easily, leaving very little background fluorescence and reducing the time and amount of water necessary to deliver clear indications for reliable inspections.

ZL-150 is listed on the QPL SAE AMS 2644 Qualified Products List.



BENEFITS

Minimize Cost of Quality Through Lower Penetrant Usage

- Delivers reduced penetrant drag-out, which leads to less penetrant usage per part
- Less penetrant used per part means lower cost of inspection and fewer purchases, shipments, and tank refills required throughout the year

Minimize Rinse Times With Excellent Removability

- Less background is visible at shorter rinse times, which means clear indications with less rinsing required
- Reduced rinse time results in less water used, faster throughput, and a reduction in greywater

Maximize Reliability of Inspections With Trusted Performance

- Strong sensitivity and removability characteristics provide clear, reliable indications
- Clear indications deliver reduced operator fatigue and more consistent inspections

FEATURES

- Reduced penetrant drag-out
- Low viscosity
- Excellent removability
- Bright, high-contrast indications
- Water washable
- Level 2 medium sensitivity
- Low odor
- Excellent surface wetting
- Very low toxicity
- QPL SAE AMS 2644 Qualified Product List

SPECIFICATION COMPLIANCE

- AECL
- AMS 2644
- ASME BPVC
- ASTM E1417
- NAVSEA T9074-AS-GIB-010/271
- QPL SAE AMS 2644

APPLICATIONS

Defect location: open to surface

Ideal for:

- Castings
- Forgings
- Extrusions
- Welds

Defect examples:

- Cracks
- Laps
- Seams
- Cold shuts
- Delamination
- Porosity

PROPERTIES

Flash Point	> 200°F / 93°C
Density	0.85 g/cc / 7.11 lb/gal
Viscosity (at 100°F / 38°C)	4.45 cs
NPE-Free	Yes

USE RECOMMENDATIONS

NDT Method	Penetrant Testing, Fluorescent
Type	1
Method(s)	A/C
Sensitivity Level	2, medium 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

55 gal / 208 L drum	01-3285-45
275 gal / 1,250 L tote	01-3285-67

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.