

ZL-4C

Water-Based Fluorescent Penetrant

Developed for testing materials that can be affected by petroleum-based penetrants, ZL-4C water-based fluorescent penetrant contains no petroleum derivatives and is harmless to materials that can be attacked by petroleum-based solvents, such as plastics. It is also safe for use on ceramics, and it can be used as a leak detector. It is always recommended that the inspection material is tested for compatibility with ZL-4C prior to use. ZL-4C can be diluted with water to decrease its viscosity to enable easier application. ZL-4C does not contain a corrosion inhibitor as the materials it is designed to test are not normally susceptible to corrosion. ZP-4B powder developer is recommended for use with ZL-4C penetrant, because liquid developers may wash penetrant out of open surface flaws in the non-metallic materials being tested.

BENEFITS

- Water-based for specialty applications
- Safe for use on ceramics
- Can be used for leak detection
- Can be diluted with water

SPECIFICATION COMPLIANCE

- ASME
- ASTM E165

APPLICATIONS

Defect location: open to surface

Ideal for:

- Plastic components
- Ceramic components

Defect examples:

- Cracks
- Leak detection

PROPERTIES

Flash Point	> 200°F / 93°C
Density	1.04 g/cc / 8.66 lb/gal
Viscosity (at 100°F / 38°C)	11.50 cs
NPE-Free	No

USE RECOMMENDATIONS

NDT Method	Penetrant Testing, Fluorescent
Required Equipment	UV light source
Temperature Range	40 to 125°F / 4 to 52°C

PACKAGING

5 gal / 18.9 L pail 01-3137-40
55 gal / 208 L drum 01-3137-45

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.