

ZL-2C

Level 2 Post Emulsifiable Fluorescent Penetrant

A medium sensitivity penetrant (Level 2), ZL-2C fluorescent post-emulsifiable penetrant is designed to be removed from the part surface by emulsifiers or solvent. Both Method B lipophilic emulsifier ZE-4E and Method D hydrophilic emulsifier ZR-10E can be used to remove surface ZL-2C penetrant. Developers can be ZP-4B dry powder developer, ZP-14A water soluble developer in a non-agitated tank, ZP-5B water suspendible developer in an agitated tank, or ZP-9F non-aqueous developer. With a UV-A light source, indications will appear as a bright green-yellow fluorescence. ZL-2C has a high flash point, and is designed to be used in open dip tanks.

ZL-2C is listed on the QPL SAE AMS 2644 Qualified Product List and is approved for use by Pratt & Whitney.

SPECIFICATION COMPLIANCE

- AECL
- AMS 2644
- ASME
- ASTM E1417
- ASTM E165
- MIL-STD-2132
- MIL-STD-271
- NAVSEA T9074-AS-GIB-010/271
- Pratt & Whitney PMC 4352
- QPL SAE AMS 2644

PROPERTIES

Flash Point	> 200°F / 93°C
Density	0.90 g/cc / 7.51 lb/gal
Viscosity (at 100°F / 38°C)	6.62 cs
NPE-Free	Yes

BENEFITS

- Bright indications
- Minimal background fluorescence
- High flash point

APPLICATIONS

Defect location: open to surface

Ideal for:

- Castings
- Forgings
- Extrusions
- Welds
- Rough surface finish

Defect examples:

- Cracks
- Laps
- Seams
- Delamination
- Porosity

USE RECOMMENDATIONS

NDT Method	Penetrant Testing, Fluorescent
Type	1
Method(s)	B / C / D
Sensitivity Level	2, medium sensitivity
Required Equipment	UV light source
Temperature Range	40 to 125°F / 4 to 52°C

PACKAGING

5 gal / 18.9 L pail 01-3123-40
55 gal / 208 L drum 01-3123-45

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.