

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.



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

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

USE RECOMMENDATIONS

NDT Method	Penetrant Testing, Fluorescent
Type	1
Method(s)	B / C / D
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

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



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