

ZE-4B

Lipophilic Emulsifier

ZYGLO® ZE-4B is a Method B lipophilic emulsifier designed to be used with our post-emulsifiable penetrants ZL-2C, ZL-27A and ZL-37. ZE-4E diffuses into the penetrant to clear it from the surface of the part being inspected. It can then be rinsed off with water, carrying the penetrant with it.



FEATURES

- Low volatility
- High flash point
- Fast acting for quick processing times
- Supplied ready to use
- Biodegradable
- Safe to use on all aerospace alloys, e.g. aluminium, steel, nickel, titanium

SPECIFICATION COMPLIANCE

- AMS2644
- ASME B & PV Code, Sec V
- ASTM E165/E165M
- ASTM E1417/E1417M
- MIL-STD-2132D
- MIL-STD-271F

APPLICATIONS

Defect location: open to surface

Ideal for:

- Use in open immersion tanks
- Castings
- Forgings
- Extrusions

Defect examples:

- Cracks
- Seams
- Laps

COMPOSITION

A blend of emulsifying agents and oils.

PRODUCT PROPERTIES

Form and colour	Pink/red liquid
Flash point	> 93°C
Density	0.93 g/cm ³
Viscosity at 38°C	25 mm ² /s
Sulphur content	< 1,000 ppm
Chloride content	< 1,000 ppm

Like all Magnaflux materials, ZE-4B is closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

USER RECOMMENDATIONS

NDT Method	Penetrant Testing
Storage temperature	10°C to 30°C
Usage temperature	5°C to 55°C

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INSTRUCTIONS FOR USE

ZE-4B is ready to use as supplied.

Immersion dip method:

- Pre-clean the test part.
- Apply penetrant and allow contact time.
- Immerse part in the emulsifier bath for required time (normally 30 - 60 seconds).
- Drain the part, then rinse with water
- Allow to dry
- Apply developer
- Inspect part
- Post-clean with a clean water spray to remove any penetrant/emulsifier residues.

PACKAGING AND PART NUMBERS



065C025

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the Safety Data Sheets, which are available at eu.magnaflux.com.