

Product Data Sheet

ZE-4B Zyglo Lipophilic Emulsifier

General Description

ZE-4B is a ready to use fast-acting lipophilic emulsifier designed for use with Zyglo post-emulsifiable dye penetrants.

ZE-4B is a red viscous liquid of high flash point and low volatility and may be used with any of the following Zyglo penetrants :

ZL-2C, ZL-27A, ZL-37

Composition

ZE-4B consists of a blend of emulsifying agents and oils.

Advantages

- ✓ Fast action - Quick processing times
- ✓ Excellent control of removability
- ✓ Biodegradable
- ✓ Long lasting
- ✓ Cost effective

Typical properties (Not a specification)

Form	⇒	Pink/red liquid
Density	⇒	0.93 g / ml
Flashpoint	⇒	> 93°C
Viscosity @ 38°C	⇒	25 cS
Sulfur content	⇒	< 1000 ppm
Chloride content	⇒	< 1000 ppm

Like all MAGNAFLUX materials, ZE-4B is closely controlled to provide unique batch to batch consistency & uniformity to assure optimum process control and inspection reliability.

Method of Use

ZE-4B is ready to use as supplied.

The normal method of application is by immersion dip. Using this method the process steps are as follows :

1. Pre-clean the part
2. Penetrant application & contact time
3. ZE-4B emulsifier immersion dip and drain
4. Water rinse
5. Dry
6. Develop

In the immersion dip stage the penetrated part is briefly immersed in the ZE-4B emulsifier and allowed to drain.

The length of contact time allowed is dependent on the penetrant type, specification requirements and the desired results. Generally this is between 30 to 60 seconds.

This is then followed by a clean water spray to remove any penetrant / emulsifier residues.

Corrosivity

ZE-4B is safe to use on all aerospace alloys including aluminium, steel, nickel and titanium.

Specification compliance

- AMS 2644 (MIL-I-25135) Method B and listed in QPL AMS 2644-1
- ASTM E 1417

ZE-4B is available in 25 lt drums.

Safety

Safety data sheets for this product are available on request.

Avoid contact with skin and eyes.

Avoid breathing spray mists.

Wear suitable gloves and eye protection if there is a risk of skin or eye contact.