

PRODUCT DATA SHEET

ZYGLO®

ZE-4B ZYGLO PENETRANT EMULSIFIER

Classification: Post Emulsifier, Lipophilic Emulsifier

General Description:

ZE-4B is a biodegradable, reddish, slightly viscous liquid used for the emulsification of Zyglo PE penetrants. ZE-4B is a general-purpose emulsifier with a moderate rate of action. ZE-4B can be used in open tanks due to its low volatility and high flash point.

Composition:

ZE-4B is composed of petroleum oils and emulsifying agents.

Typical Properties (Not a Specification):

Color:	Pinkish Red
Viscosity @ 100°F:	25 Centistokes
Flash Point:	Greater than 250°F (120°C) P.M.C.C.
Density:	7.7 lbs./gallon (922 gms/L)
Water Tolerance:	15%
Penetrant Tolerance:	15%
Corrosion:	Non-corrosive
Sulfur:	Less than 1000 ppm
Chlorine:	Less than 1000 ppm

Application and Emulsification:

ZE-4B is applied by dipping, pouring or spraying, with dipping being the recommended method. The penetrant covered part is completely covered with emulsifier and allowed to drain for a predetermined length of time, then washed with water to remove the penetrant/emulsifier mixture. The dwell time will vary depending upon the penetrant used, the part surface texture, specification requirements and the desired results.

General Emulsification Times

Penetrant	Seconds
ZL-2C	45 - 90
ZL-27A	90 - 240
ZL-37	90 - 180

Specification Compliance

AMS 2644, Garrett EMS 52039, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, MIL-STD-2132, ASTM E 165, ASME B & PV code, Sec. V, ASTM E 1417, McDonnell Douglas P.S. 21202, AECL

Packaging

5 gallon pail, 20 gallon drum, 55 gallon drum