DEVELOPER

DE-3

Article No. 670.400 /400ml

Product description

The best choice for reliable, effective defect detection in a wide range of applications. DE-3 has been formulated to provide the best quality of indication in daylight inspection. Cost effective and assured.
Non aqueous suspended developer.

Application

Castings, forgings, weld inspection, metal fabrication, railways, power generation components and pipelines.

Composition

Solvent based mobile white liquid suspension.

Method of Use

1. Clean the component prior to testing to ensure it is free from contamination.
2. Apply ECS RD-2 thoroughly, by spray or brush, to the whole test area.
3. Allow the penetrant time to soak into the defect. Typical times might be 2-5 minutes minimum with 10 minutes being adequate in most cases.
4. Remove excess penetrant from the surface using a solvent wipe technique. Dampen a cloth with ECS CL-1 solvent cleaner.
5. Allow the surface to dry.
6. Apply a thin layer of developer (ECS DE-3). Allow a minimum of 10 minutes' time to elapse for the penetrant to soak up into the developer.
7. After inspection clean the component thoroughly using ECS CL-1 Cleaner. Developer can be removed from the surface using the solvent wipe technique and penetrant from the defect by solvent soak.

Please note

Read the relevant Safety Data Sheet before use. Sheets are available on request from ECS.

Technical Data

Typical Properties	DE-3
Flash Point	>40°C
Density	0.88 g/cm^3
pH	Neutral
Sulphur Content	<300 ppm
Chloride Content	<300 ppm
Corrosion	Meets AMS 2644
Storage Temperature	10 to 30°C
Usage Temperature	-5 to 50°C
Viscosity	<10 mm^2/sec

Specification Compliance	DE-3
AMS 2644	Yes
ASME B & PV Sec V	Yes
ASTM E165/E165M	Yes
ASTM E1417/E1417M	Yes
EN ISO 3452-1	Yes
EN ISO 3452-2	Yes
MIL-STD-2132D	Yes
Mil-STD-271F	Yes
SAFRAN Pr 5000 / In 5000	Yes

Associated Products	ECS Product Designation
Red Dye Penetrant	RD-2
Cleaner	CL-1

Storage / Shelf Life

Shelf life is 3 years if stored correctly.

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