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POST-EMULSIFIABLE FLUORESCENT PENETRANT RC-77



MANUFACTURER : SHERWIN (US) / NDT-Europa (NL)

DESCRIPTION / APPLICATION(S) :

Post-emulsifiable ultra-high sensitivity fluorescent penetrant designed for inspection of critical parts, turbines blades, assemblies, welds.

Type 1, method B, C, D, level 4 according AMS 2644 and ISO 3452-2.

Companion products : Lipophilic emulsifier ER-85
Hydrophilic emulsifier ER-83A, ER-83B, ER-83C
Developer D-90G, D-100, R 60, D-106

SPECIFICATION(S) / STANDARD(S) :

- Conforms to code(s) : ASME
standard(s) : ISO 3452-2
specification(s):DASSAULT
EADS
SNECMA
ROLLS ROYCE
PRATT & WHITNEY
TURBOMECA
GENERAL ELECTRIC
- Homologation : QPD – AMS 2644
- This product complies with REACH regulation.

PHYSICO-CHEMICAL PROPERTIES:

- Aspect : liquid
- Fluorescence : green-yellow
- Flash point : > 93°C

- Viscosity : 8.9 mm²/s ± 10 % at 38°C
- Very low halogen and sulfur content.
- Compatible with all metals, ceramics, and certain synthetic substances.

PACKAGING / TRANSPORT / STORAGE :**.Packaging :**

1, 5, 10, 25 L can

60 L, 200 L drum

300 mL spraycan

.Transport / Handling : Refer to Material Safety Data Sheet (MSDS).**.Storage / Shelf life :**

Keep away from moisture

Temperature range : 0°C à 50°C.

Keep packaging closed after taking out some of the product

Can / drum : 48 months

Spraycan : 60 months

INSTRUCTIONS :

Parts cleaning : use appropriate process/products as per applicable specifications

Application :

By spraying (electrostatic, pneumatic, aerosol), using a brush, or by immersion.

Dwell time :

10 to 30 minutes, depending on applicable specs. If dipping is used, allow the penetrant to drain from the part surface back to the penetrant tank.

Removal :

Two separate procedures apply:

- with pre-wash
- without pre-wash

Pre-wash :

RC-77 → Pre-wash → Hydrophilic emulsifier → Rinsing → Drying → Developer

Conventional post-emulsion method diagram :

RC-77 → Hydrophilic or lipophilic emulsifier → Rinsing → Drying → Developer

The first process will save considerable quantities of emulsifier.

The emulsifier is applied by immersion or by spraying (see technical datasheet ER-83A, ER-83B, ER-83C or ER-85).



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DATA SHEET

Ref : TDS/ **RC-77**

Page : 3/3

Rev : 4 Date : 11/11

Rinsing off :

Use coarse plain water spray to remove all traces of emulsified penetrant

Air + water spray gun is a good alternative.

Washing is carried out under UV-A radiation, so as to ensure that no fluorescent background is left.

Drying :

A circulating oven (60 to 80°C) is suggested; do not use compressed air. Infrared lamps and/or air guns are not advisable.

Development :

Although RC-77 is self-developing, using a developer enhances indications.

Inspection :

Inspect parts under appropriate UV-A lighting (mini 1000 $\mu\text{W}/\text{cm}^2$, if possible $\geq 1500\mu\text{W}/\text{cm}^2$) and dimmed visible light (less than 20 lux).

HEALTH AND SAFETY : Refer to Material Safety Data Sheet (MSDS).

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