

Technical Data Sheet - Fiche Technique

Approvals and conformities

ASME ISO 3452-2 DASSAULT AVIATION EADS SAFRAN ROLLS ROYCE PRATT & WHITNEY QPD-AMS 2644

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

DESCRIPTION / APPLICATION(S) :

Post-emulsifiable high sensitivity fluorescent penetrant designed for inspection of critical parts, turbines blades, assemblies, welds. Type I, method B, C, D, level 3 according AMS 2644 and level 4 according ISO 3452-2.

Companion products : Lipophilic emulsifier ER 85 Hydrophilic emulsifier ER-83A, ER-83B, ER-83C Developer D-90G, D-100, D-106, R60

DIRECTIONS FOR USE

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-65 -> Pre-wash -> Hydrophilic emulsifier -> Rinsing -> Drying -> Developer

Conventional post-emulsion method diagram :

RC-65 -> 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).

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 ; 140°F to 176°F) is suggested; do not use compressed air. Infrared lamps and/or air guns are not advisable.

Development :

Although RC 65 is self-developing, using a developer enhances indications.

Inspection :

Inspect parts under appropriate UV-A lighting (mini 1000 μ W/cm², if possible > 1500 μ W/cm²) and dimmed visible light (less than 20 lux).

TECHNICAL CHARACTERISTICS

Very low halogen and sulfur content Compatible with all metals, ceramics, and certain synthetic substances.	
Appearance gr	een liquid
Fluorescence	een-yellow
Flash point	93°C
Viscosity 5.7	7 mm²/s± 10 % at 38°C

PRECAUTIONS FOR USE AND STORAGE

Transport / Handling :Refer to Material Safety Data Sheet (MSDS). **Storage :** Keep away from moisture Temperature range : 0°C à 50° C. Keep packaging closed after taking out some of the product





This technical data sheet replaces and cancels the previous one.

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