

Technical Data Sheet - Fiche Technique

Approvals and conformities

ASME ISO 3452-2 QPD-AMS 2644

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

DESCRIPTION / APPLICATION(S):

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

Type 1, methode B, C, D, level 2.

Companion products: Hydrophilic emulsifier ER-83A, ER-83B, ER-83C

Lipophilic emulsifier ER-85

Developer D-90G, D-100, R60, D-106

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:

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RC-55-Pre-wash-Hydrophilic emulsifier-Rinsing - Drying - Developper

Conventional post-emulsion method diagram :





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) is suggested; do not use compressed air. Infrared lamps and/or air guns are nor advisable.

Development:

Although RC-55 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.

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



1 Date: 05-07-2017 Written and checked by: F. Héron

This technical data sheet replaces and cancels the previous one.

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