



D-100

NON AQUEOUS WET DEVELOPER

Technical Data Sheet

Approvals and conformities

AIRBUS
AIRBUS HELICOPTERS
ASME
EDF (PMUC : Produits et Matériels Utilisables en Centrale)
ISO 3452-2
PRATT & WHITNEY
QPD-AMS 2644
RCC-M
ROLLS ROYCE
SAFRAN

MANUFACTURER : Sherwin Inc. (USA) / NDT-Europa (NL)

DESCRIPTION / APPLICATION(S) :

Non aqueous wet developer, giving enhanced sensitivity for locating tight, incipient flaws.

Companion products: any type of penetrant (fluorescent or colored) used in the “normal range of temperature (+10°C. to +50°C.)” as defined in ISO 3452. For other temperatures, please ask us.

DIRECTIONS FOR USE

Before use, shake the developer well to resuspend the powder.

Application :

Spraying is the only recommended method of applying D-100. Proper application is essential for high sensitivity performance.

D-100 should be applied to thoroughly dry parts from which excess surface penetrant has been removed by a pre-wash step, an emulsifier/wash step, or by wiping. After agitating the D-100

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suspension, evenly spray a light, slightly wet coating of developer onto the dry surface of a part. An overly wet application will blur indications ; an overly dry application lacks full developing action. Two or three light applications work better than a single heavy application. Too heavy an application may conceal indications.

If you suspect particularly thin discontinuities, it may be relevant to wait for more than 30 minutes before inspection.

Developing and inspection :

D-100 dries rapidly and draws flaw-entrapped penetrant back to the surface using solvent and capillary action. Flaw marks begin appearing instantly under plain or black light, depending on which penetrant is being used. Five minutes or more should elapse before making final interpretations.

Cleaning:

D-100 developer is very easy to wash off using a cloth or water.

TECHNICAL CHARACTERISTICS

Very low halogen and sulfur content

Compatible with all metals, ceramics, and certain synthetic materials

Granulometry : X10 = 1,8µm / X90 = 14µm / X99 = 24µm according ISO 13320-1

Appearance white powder in suspension in an organic medium.

Flash point 12°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.

The above details have been compiled to the best of our knowledge. They have, however, an indicative value only and we therefore make no warranties and assume no liability in connection with any use of this information, particularly if a third party's rights are affected by the use of our products. The above information has been compiled based upon tests carried out by BABBCO/SHERWIN BABBCO. All data is subject to change as Socomore deems appropriate. The data given is not intended to substitute for any testing you must conduct in order to determine the suitability of the product for your particular purposes. Please check your local legislation applicable to the use of this product. Should you need any further information please contact us.