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RED DYE PENETRANT DP-55



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

DESCRIPTION / APPLICATION(S):

Type II Method A (water-washable) and Method C (solvent removable) level 2 red dye penetrant, as per AMS 2644 and ISO 3452-2 standard, used in the “normal range of temperature (+10°C to +50°C)” as defined in ISO 3452. For other temperatures, please ask us.

Rhodamine-free and Azo III A2 amine (diazo) free.

Companion products : Cleaner : N120, N106A, DR-60, DR-62.
Wet developer : D-100, R60, D-106

SPECIFICATION(S) / STANDARD(S):

- Conforms to code(s) : ASME, RCC-M
standard(s): ISO 3452-2
specification(s):AMS 2644
- Homologation : PMUC (French acronym for : Products and Equipments allowed for use in power plants by EDF-French Electricity Board)

PHYSICO-CHEMICAL PROPERTIES:

- Aspect : red liquid
- This high sensitivity penetrant is very low in sulphur, fluorine, chlorine, bromine.
- Flash point : > 60°C
- Compatible with any metal, ceramics and some synthetic materials.

PACKAGING / TRANSPORT / STORAGE:

.Packaging: 400mL (CO2), 300mL, 500mL (butane-propane) spraycan



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1L, 5L, 10L, 25L can
60L, 200L drum

.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 / spraycan: 48 months

INSTRUCTIONS:

Surface must be free of contaminants, **even inside flaws**. Use adequate methods to remove oxides, paints, oils, water, etc...

Prior to applying penetrant, wipe out with degreaser N 120 or DR 60 and rags. Allow 2 minutes for complete evaporation.

Apply penetrant by any adequate means (spraying, brushing, flowing, dipping, etc...)

Dwell time:

20 minutes are recommended. Dwell time may be shortened down to 10 minutes when only large cracks are sought for, or extended up to several hours for tight cracks.


Excess of penetrant removal:

This is a delicate operation. Remove the excess penetrant from the surface, being careful not to touch the penetrant trapped in the defects. DP-55 is easy to wash off with sprayed water ; never dip the parts in water. Rinse under low pressure (30 to 150 kPa /5 to 20 psi), with the nozzle of gun 30 to 40 cm (12" to 16") from the part, during the shortest time possible, until the red background disappears. If a red background remains on particularly coarse parts, clean it off with a N 106A wipe or DR 60, then rinse again within 30 seconds. If you can't or don't want to use water, carry out the following procedure (and not any other).

- Wipe off the excess of penetrant from the surface using clean rags.
- Using rags lightly moistened with N106A or DR-60, wipe again.
- As a final step, wipe with clean, dry rags.

Drying:

After rinsing, dry either through natural evaporation, or preferably through hot air circulation (80°C maximum). If you wipe the part, do so with clean cloths that are not too absorbing, preferably by dabbing the part.

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Applying the developer:

When moisture has evaporated, apply one of the mentioned developers (spray only).

Inspection:

Some 10 minutes after the developer has dried, you may inspect the part: the defects appear on the white background in the form of red spots (blowholes, porosities, etc.) or red lines (cracks, defective welds, shocks, etc.). Longer development time (30 minutes, and even perhaps several hours) can allow you to detect extremely small defects.

Inspection:

Parts shall be inspected as per ISO 3059 standard requirements.

Inspection is better off when using a “cool white” light, colour temperature being more than 4500K and colour rendition index more than 80 or light with an illuminating index of D65. It is recommended NOT TO USE undervoltaged incandescent bulbs, as it often happens with battery-operated units, this giving a yellowish light.

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

The information given herein is given in good faith to our customers for the sole purpose of assisting them in the use of the products. The document contains no formal or implicit guarantee regarding its use.

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