

Approvals and conformities

ASME

RCC-M

ISO 3452-2

ISO 3452-5

PMUC (French acronym for : Products and Equipments allowed for use in Powerplants by EDF - French Electricity Bo

MANUFACTURER: Babb Co (FR)**DESCRIPTION / APPLICATION(S):**

High sensitivity, easily water washable red dye penetrant, used for detection of defects and cracks on non porous materials that do not react chemically in a temperature range of 0 to 200°C.

Companion products: NT101B cleaner

RT71 developer

DIRECTIONS FOR USE

Apply PRT23E by any adequate means (spraying, brushing, flowing, dipping, etc.) on the surfaces to be inspected.

The following penetration times are suggested:

SURFACE TEMPERATURE / TIME :

180°C : 1 min

150°C : 3 min

120°C : 8 to 10 min

Ambient temperature : 20 to 30 minutes

Once the time elapses, wipe the excess of penetrant using clean cloths. Should a pinkish background remain, wipe the part with a cloth slightly moistened with the NT101B special cleaning agent, and wipe immediately using a cloth.

Then, apply a thin layer of the RT71 high temperature developer, by spray only (gun or spray can).

Inspect the part as soon as the developer is dry: indeed, the higher the temperature, the more significant the molecular agitation, and the quicker the bleeding.

Inspection conditions:

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.

TECHNICAL CHARACTERISTICS

Very low halogen and sulfur content.

Compatible with all metals, ceramics, and certain synthetic substances.

Appearance red liquid

Viscosity > 50 mm²/s at 40°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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1 Date : 06-07-2017 Written and checked by : F. Héron