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TECHNICAL DATA SHEET

Ref: B 103

Page: 1/2

Rev: 1 Date: 05/05

BLACK MAGNETIC DETECTING MEDIUM B 103

MANUFACTURER: BABB CO

DISTRIBUTOR: NDT Consultants Limited (UK)

FEATURES:

Black magnetic detecting medium for detection of surface and subsurface defects on ferromagnetic parts:

- High sensitivity
- Very thin powder
- Shipped in a spray can

COMPANION PRODUCTS:

White background B 104A, Solvent B105

SPECIFICATIONS / STANDARDS:

Can be used with any magnetic testing equipment (including electric current generators, electromagnets, permanent magnets).

- RCC-M code-compliant
- ASME-code compliant
- PMUC (Produits et Matériels Utilisables en Centrales, i.e. Products and Materials that can be Used in Nuclear Plants) product
- NFF 00-090

PHYSICO-CHEMICAL PROPERTIES:

- Aliphatic medium with a flash point over +60°C. (+140°F.)
- Very thin magnetic powder: 0.5 to 10 µm.
- Non-chlorinated propellant
- Halogen and sulphur content below 200 ppm.

PACKAGING / TRANSPORT / STORAGE:

Packaging: 500 ml spray can

Shipping / Handling: refer to MSDS .

Storage / Shelf life: Keep away from moisture

Temperature limit: -5 to 50° C. (23 to 130°F.)

Keep packaging closed after taking out some of the product.

Shelf life: 48 months.

INSTRUCTIONS:

It is recommended to remove any paint, oxide, welding flux, etc. from the part to be examined as such traces are likely to produce false indications, and to degrease the part carefully.

Prior application of the B 104A contrasting white background is strongly recommended. The contrast with B 103 shall then be enhanced significantly, causing reading to be easier and detection to be safer.

Once the B 104A is dry, shake the B 103 can vigorously until the ball tinkles clearly.

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Page: 2/2

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Then, spray the B 103 on the area to be examined during magnetization. Let magnetization on for 1 to 2 seconds after the spray stops, in order for the particles to come into place properly.

Inspection should be done under an ordinary white light with a sufficient level (350 lux minimum recommended or 500 lux, depending on applicable specifications).

HEALTH AND SAFETY: refer to MSDS.

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