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## TECHNICAL

## DATA SHEET

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### BLACK MAGNETIC DETECTING MEDIUM B 103C

**MANUFACTURER : Babb Co (Fr)**

**DESCRIPTION / APPLICATION(S) :**

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

- High sensitivity
- Very thin powder
- Shipped in spray cans

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

**Companion products :** White background B 104A  
Solvent B 105

**SPECIFICATION(S) / STANDARD(S) :**

- Conforms to code(s) : ASME, RCC-M  
standard(s) : ISO 9934-2  
NFF 00-090  
specification(s):AMS 3043  
ASTM-E-1444
- Homologation : PMUC (French acronym for : Products and Equipments allowed for use in power plants by EDF-French Electricity Board)

**PHYSICO-CHEMICAL PROPERTIES:**

- Aliphatic medium with a flash point over +93°C. (+200°F.)
- Very thin magnetic powder: 0,5 to 10 µm. (average size :1,3µm)
- Propelling agent : CO<sub>2</sub>
- Halogenous content (Chlorine + Fluorine + Bromine) : < 200 ppm
- Sulfur content : < 200 ppm.

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**PACKAGING / TRANSPORT / STORAGE :**

- .Packaging :** spraycan 400mL
- .Transport / Handling :** Refer to Material Safety Data Sheet (MSDS).
- .Storage / Shelf life :** Keep away from moisture  
Temperature range : 0°C à 50° C (32°F to 122°F).  
Keep packaging closed after taking out some of the product
- Spraycan : 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 103C** shall then be enhanced significantly, causing reading to be easier and detection to be safer.

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

Then, spray the **B 103C** 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 Material Safety Data Sheet (MSDS).

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