

Black Ink

BI-2

Article No. 690.400 / 400 ml

Product description

The best choice for reliable, effective defect detection in a wide range of applications. BI-2 has been formulated to provide the best quality of indication in daylight inspection. Cost effective and assured.

Wet method, oil based, ready to use, daylight visible ink.

Application

Castings, forgings, weld inspection, metal fabrication, railways, power generation components and pipelines.

Composition

A suspension of magnetic particles in a high-flash petroleum distillate.

Method of Use

- 1 Clean the component prior to testing to ensure it is free from contamination and to provide a suitable test surface.
- 2 Apply a thin coating of ECS White Contrast Paint (WP-1) to provide a contrasting background color.
- 3 Agitate the can thoroughly, by shaking, to agitate the particles, ensuring a uniform distribution.
- 4 Apply the ink by spraying.
 - Wet Continuous Method
 Apply the ink and magnetize using either
 a permanent or electromagnet. Stop the
 flow of ink before the magnetization
 discontinues to avoid washing away
 indications.
 - b. Wet Residual MethodPre magnetize the component. Spray ink.
- 5 After inspection demagnetize the component before cleaning thus ensuring easy removal of magnetic powder particles.

Storage / Shelf Life

Shelf life is 3 years if stored correctly.



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Typical Properties	BI-2
Flash point	>93°C (as a
	bulk)
SAE viscosity	6 to 7
Viscosity at 38 deg C	2.5 mm ² /sec
Density	0.8 g/cm ³
Particle Size Range	0.2 to 2.0
	microns
Settlement Volume (1 hr)	1.5 to 2.4 ml
pH (2% solution)	Neutral
Storage Temperature	10 to 30°C
Usage Temperature	-5 to 50°C

Specification Compliance	BI-2
AMS 2641	Yes
AMS 3041	Yes
ASM 3043 (Aerosol)	Yes
ASME B & PV Code Sec V	Yes
ASTM E709	Yes
ASTM E1444/E1444M	Yes
EN ISO 9934-2	Yes
GOST R ISO 9934-2-2011	Yes
MIL-STD-2132D	Yes

Associated Products	ECS Product Designation
White Contrast Paint	WP-1
Cleaner	CL-1

Please note

Read the relevant Safety Data Sheet before use. Sheets are available on request from ECS.