

FlawGlo Series of Magnetic Particle Testing Chemicals



Salient Features

- High Sensitivity
- Superior Flaw Resolution
- Low in Sulphur & Halogen Content
- Temperature Range 0 to 48°C
- Conforms to ASTM E-1444, ASTM E-709, ASME BPVC Sec V, EN ISO 9934-2

Magnetic Particle testing is suitable for the surface/sub-surface testing of ferro-magnetic materials. This method is based on the principle that iron sand shall be attracted by magnet. In this method the material or part to be tested is magnetized, then apply the magnetic particles to the objective surface. The magnetic particle shall be attracted by the leakage flux formed at the defect and forms an indication. The formed indication is as 10 or more times large as the defect in its width. So, we can detect the defect easily.

There are two types of magnetic particle, one is non fluorescent for the observation under white light, the other is fluorescent for the observation under UV light (we manufacture full range of LED UV lights & for information kindly visit <https://www.arorandt.com/led-uv-lamps-black-lights/>). The other categorization is based on the application; those are Dry method and Wet method, magnetic particle shall be applied to the surfaces at it stands. In Wet method, magnetic particle shall be dispersed in oil or water.

In magnetic particle testing, the key role of flaw detection is performed by the testing chemicals. Hence, the quality of testing chemicals being used greatly influences the quality of the test performed. FlawGlo series includes all types of magnetic particles testing chemicals for different applications (i.e. oil based, water based & dry application) in both visible as well as fluorescent forms.

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Technical Data of Aerosol Cans

Part No.	Description	Approval & Specifications:	Application/Industry
WCP 104	White Contrast Paint (420 ml Aerosol Can)	ASTM E1444, ASTM E-709, ASME SECTION V, ASME BPVC, EN ISO 9934-1	<ul style="list-style-type: none"> Field Testing Spot inspection In-service inspection
BMI 106	Black Magnetic Ink (420 ml Aerosol Can)	ASTM E-3024, ASTM E-709, AMS 3042, ASME B & PV Code - Section V, MIL-STD-271 (SH), NAVSEA 250-1500-1	<ul style="list-style-type: none"> Machined & Finished surface
FMI 800	Fluorescent Magnetic Ink (420 ml Aerosol Can)	ASTM E 1444, ASTM E 709, ASME B & PV Code - Section V, AMS 3046, AMS 3161, AMS 2641, A-A-59230, MIL-STD-271, NAVSEA 250- 1500-1	<ul style="list-style-type: none"> Automotive Aerospace Railways Oil-Gas

Technical Data of Powder/Concentrate

Part No.	Description	Dilution	Approval & Specifications	Application/Industry
ARDP 07 ABDP 01 AGDP 08	Red Dry Powder Black Dry Powder Grey Dry Powder	NA	ASTM E1444, ASTM E-709, ASME BPVC Section V, AMS 3040, IS 6410, BS4069/6072, ISO 9934	<ul style="list-style-type: none"> Weld testing Highly reflective surfaces Rough textured surfaces
FlawGlo WF 834	Water Fluorescent Powder (2-5 micron, average particle size is 3 micron)	5gm/ltr	ASTM E 1444, ASTM E-709, ASME SE - 709, ASME B & PV Code - Section V, ASTM E 3024, AMS 3044, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E	<ul style="list-style-type: none"> Railways Automotive Steel manufacturing Forging
FlawGlo WF 418	Water Fluorescent Powder (2-18 micron, average particle size is 7.5 micron)	6gm/ltr	ASTM E-1444, ASTM E709, ASTM E-3024, AMS 3044, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E	<ul style="list-style-type: none"> Oil-Gas inspections Billet/bar inspections Casting operations
FlawGlo CF 778	Water Fluorescent Concentrate	25ml/ltr	ASTM E 1444, ASTM E-709, ASME SE - 709, ASME B & PV Code - Section V, ASTM E 3024, AMS 3044, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E	<ul style="list-style-type: none"> Automotive Aerospace Where extra corrosion protection is required
FlawGlo OF 800	Oil Fluorescent Powder	1gm/ltr	ASTM E 1444, ASTM E-709, ASME SE - 709, ASME B & PV Code - Section V, AMS 3044, MIL-STD-271, NAVSEA 250- 1500-1, NTR-1E	<ul style="list-style-type: none"> Automotive Aerospace Railways Oil-Gas
FlawGlo OV 106	Oil Visible Powder	9.5gm/ltr	ASTM E-3024, AMS 3042, MIL-STD-1949, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E	<ul style="list-style-type: none"> Machined & Finished surface
FlawGlo CF	Carrier Fluid	20 ltr	ASTM D1500, ASTM D1298, ASTM D130, ASTM D92, ASTM D97, ASTM D445, ASTM D86, ASTM D611, ASTM D2140	<ul style="list-style-type: none"> Machined & Finished surface

Note : Standard Packaging : 1/5/20/50 Kgs

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