



MAGNATRON SY-45 Fluorescent Magnetic Particle

SY-45 is a fluorescent magnetic particle composed of highly sensitive magnetic particles. Fluorescent magnetic particle testing is a method that facilitates the easy detection of surface-opening defects in magnetized test specimens by applying a magnetic particle solution containing dispersed fluorescent magnetic particles and exposing it to ultraviolet light from a blacklight.

SY-45 is a high-brightness, high-durability type of magnetic particle. It has a proven track record in a wide range of inspections, including general inspection and material inspection, semi-precision inspection, and being suitable for long-term use. It is also used for the inspection of rolled products, cast and forged components. For use, it should be dispersed and suspended in conditioner such as the Blendex series and used in water dispersion.

■ FEATURES

- Produces highly visible fluorescent crack indications with a simple process covered by wide range magnetic particle size.
- High-brightness, high-durability fluorescent magnetic particle.
- Classified as a general inspection from semi-precision type, widely used for various applications.

■ PROPERTIES

Color	Yellow-green fluorescence
Particle Size	3 ~ 15 μ m
Recommended Magnetic Particle Concentration	0.2 ~ 2.0 g/L
Sedimentation Volume (Reference)	0.02 ~ 0.22 mL / 100mL

■ SPECIFICATION CONFORMANCE

- JIS Z 2320-2
- ASME B&PV Code, Sec.V
- ASTM E1444
- ASTM E3024
- AMS3044

* Please contact us regarding compliance to the latest standards and standards not listed in this TDS.



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■ APPLICATIONS

- Welded parts
- Machined components
- Rolled materials
- Castings and forgings
- Raw material inspection
- Semi-precision inspection

■ SPECIFICATION

How to use →



NDT Method	Magnetic Particle Testing (MT) / Fluorescent Magnetic Particle
Storage Temperature	32°F ~ 104°F / 0°C ~ 40°C
Usage Temperature	40°F ~ 134°F / 5°C ~ 57°C
Quality assurance period	3 years from the manufacturing date
Disposal	Dispose empty can in a safe manner in accordance with local/national regulations.

■ CONTAINER

Can Type: 1 kg can

■ SERVICE/CONTACT

Please be sure to read the SDS (Safety Data Sheet) before use.
Please download the SDS from our website or contact our nearest sales office or distributor.
For other inquiries about our products, please contact our nearest sales office.

Contact us →

