

MAGNATRON SY-8000 Fluorescent Magnetic Particle

SY-8000 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 particle and exposing it to ultraviolet light from a blacklight. SY-8000 is classified as the finest particle size in our fluorescent magnetic powder category and is characterized by high fluorescence brightness and excellent detectability.

It is widely used for final products such as cast and forged components, as well as machined parts. Additionally, it is applicable to ferromagnetic steel materials, including rolled products and welds. This makes it highly reliable for defect detection not only during manufacturing and fabrication but also in preventive maintenance and quality inspection. For use, the particle should be dispersed and suspended in Blendex series magnetic particle dispersants (for water dispersion) or Magnatron Oil (for oil dispersion).

■ FEATURES

- Produces highly visible fluorescent crack indications with a simple process.
- Precision inspection magnetic particle widely used for final products.
- Available as an aerosol product for excellent portability and workability (dispersion media types and product names listed below).

(Oil dispersion : SY-8000、Fast-drying solvent dispersion : SY-8000XB、 Water dispersion : SY-8000W)

■ PROPERTIES

Color	Yellow-green fluorescence
Particle Size	$\leq 3 \mu\text{m}$
Recommended Magnetic Particle Concentration	0.1~2.0 g/L
Sedimentation Volume (Reference)	0.02~0.5mL /100mL



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SPECIFICATION CONFORMANCE

- JIS Z 2320-2 (Applicable to aerosol only)
- ASTM E3024
- ASME B&PV Code, Sec.V
- ASTM E1444
- AMS3044 (Magnetic Particle) , 3046 (Aerosol)

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

APPLICATIONS

- Welded parts
- Machined components
- Rolled materials
- Castings and forgings

SPECIFICATION

How to use →



NDT Method	Magnetic Particle Testing (MT) / Fluorescent Magnetic Particle
Storage Temperature	Can : 32°F~104°F(0°C~40°C) / Aerosol : less than 104°F(40°C)
Usage Temperature	40°F~134°F/5°C~57°C
Quality assurance period	3 years from the manufacturing date
Disposal	Aerosol: After using up the contents, press the button outside in a fire-free area until the spray sound disappears, vent the gas completely. Cans: Dispose empty can in a safe manner in accordance with local/national regulations.

CONTAINER

Can Type: Can Type: 1 kg and 5 kg can

Aerosol Type: 450 type Aerosol



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■ 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 →

