



MAGNATRON SY-45WD Concentrated Fluorescent Magnetic Particle

SY-45WD is a fluorescent magnetic particle pre-mixed at a high concentration in a water-based liquid dispersant. The inspection liquid can be easily prepared by simply adding the required amount directly into water and stirring. SY-45WD features high fluorescence brightness, producing clear magnetic particle indications with excellent detectability.

It is ideal for general crack detection and inspection of machine components, with easy adjustment of magnetic particle concentration.

For use, dilute it by a factor of 100 to 400 (magnetic particle concentration of 2~0.5 g/L). The recommended concentration is a 200-fold dilution (magnetic particle concentration of 1 g/L). For example, adding 5 mL of this well-mixed solution to 1 L of water results in a magnetic particle concentration of 1 g/L.

■ FEATURES

- Simple preparation of a highly visible fluorescent magnetic particle liquid by just mixing with water.
- Excellent dispersibility.
- Good wettability ensures uniform application of the magnetic particle liquid.
- High-brightness magnetic particles with excellent defoaming stability, offering high durability for circulation use.

■ PROPERTIES

Color	Yellow-green fluorescence
Particle Size	3~15 μ m
Recommended Magnetic Particle Concentration	0.5~2.0 g/L
Sedimentation Volume (Reference)	0.03~0.2mL /100mL

■ SPECIFICATION CONFORMANCE

- JIS Z 2320-2
- ASME B&PV Code, Sec.V
- ASTM E1444
- ASTM E3024
- AMS3044(Magnetic Particle)
- AS4792 (Dispersant)

* 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

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
Recommended Dilution Ratio	100-fold to 400-fold (magnetic particle concentration 2~0.5 g/L) / Recommended concentration: 200-fold (magnetic particle concentration 1 g/L)
Quality assurance period	2 years from the manufacturing date
Disposal	Bottle: Dispose empty can in a safe manner in accordance with local/national regulations.

CONTAINER

Bottle Type: 500 mL and 4 L plastic containers

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 →

