

Super-Magna series



Fluorescent Magnetic Particles(FMP)

FMP shows fluorescence by UV radiation. Used as the suspension of water or oil with conditioner.

Features

- High fluorescent brightness assures excellent visibility to the fine defects.
- Less fluorescence deterioration produces long lasting performance.
- Inspection cost will be reduced by smaller consumption.

Non-fluorescent Magnetic Particles(MP)

There are three colors MP. Those are White/Red/Black. Wet method is used as the suspension of water or oil with conditioner. Dry method is used with applicator.

Features

- Vivid colors show good contrast to the objective surface.
- Less peel off has realized by special production process.
- Dry method is suitable for sub-surface MPI.



Type, characteristics and application

Type	Color	Fluorescence	Particle size(μm)	Applications
Fluorescent Magnetic Particles (for wet method only)				
LY-10	GY	180	3~7	Multi-purpose, *, **
LY-20	GY	260	3~7	High-brightness, law material, *, **
LY-30	GY	110	1~4	Precision inspection, aircraft parts etc. ** and DIN
LY-40	GY	125	1~5	Multi-purpose, **
LY-50	YG	180	3~7	Multi purpose, for oil suspension, **
LY-60	YG	154	3~4	For residual method, casting/quenching parts,*
Non-fluorescent Magnetic Particles				
WD-55	White	—	22~67	Multi-purpose, for dry method
WD-103Y	White	—	8~25	Law material, for dry method
BD-303	Black	—	6~23	Law material, for dry method, **
BW-333	Black	—	1~3	Law material, for wet method, **

1. Color : GY = Greenish Yellow YG = Yellowish Green

2. Fluorescence is indicated as a relative value compared to standard products.

3. Particle size indicated according to JIS-G0565 (Microscope method)

4. * = Water suspension only

5. ** = meet ASTM, AMS

Particle concentration ml/100ml

Standard	FMP	Non-FMP
ASTM	0.1-0.4	1.2-2.4

Suspension vehicles

As the suspension vehicle, water or oil shall be used. For oil suspension, SO-220B (meets AMS) or kerosine (JIS-K2203) shall be used. For water suspension, water conditioner shall be used.

☆Super-keep AR-100K(1-5%) addition to the suspension is effective for short time rustproof.

Water conditioner

Type	Concentration	Features
BC-1	1~3g/L	Powder type, antifoaming ability
BC-2	1~3g/L	Powder type, dispersing ability, wetting ability
Eco-Magna EC-3	5ml (5g) /L	Liquid type, human and environmental safety, easy waste water treatment
Eco-Magna EC-4	5ml (5g) /L	Liquid type, human and environmental safety, dispersing ability and wetting ability

Ready for use suspension

Type	Vehicles	Features/Concentration
LY-10 (oil)	Oil base	No need for care of rust 2.0g/L (450cc Aerosol)
LY-10 (water)	Water base	Safe and clean 0.75g/L (450cc Aerosol)
LY-10 (rapid dry)	Solvent base	Good operation efficiency 1.5g/L (450cc Aerosol)
LY-10 Conc LY-40 Conc	Dilute one bottle cap of LY Conc. with 10 liter of water and agitate it, FMP suspension (0.7g/L) has prepared. (concentrated suspension)	

Caution: Aerosol propellant, oil and solvent are flammable.

