

# FM-25

## Fluorescence Magnetic Particle Spray

Aerosol 450ml/can, 20cans/Box



FM-25 is brown high sensitive fluorescence magnetic particle that changes its color to yellow green fluorescent color under Black Light (Ultraviolet Ray Wavelength 365nm). It is oil base type with low toxicity, high boiling point and no corrosion. By adding special dispersing agent and refined fluorescent magnetic particle, it can be sprayed evenly and very easy to be identified. Also it is very economic and effective product. This product, FM-25, can be applied on the precise defective area and is suitable for the testing of defective area when being processed and the finished product.

### Uses

FM-25 is the testing agent that can test the minute crack and crevice easily. It can be applied for the testing of defective area such as seams, shrink cracks, tears, laps, flakes, welding defect, grinding cracks, quenching cracks and fatigue cracks.

### Component

FM-25 is the mixture of special fluorescent dye stuff and brown magnetic flaw and oil base.

### Properties

Division	Unit	Properties
Color	—	Yellow-green fluorescence
Particle size	μm	6 or less
SAE Sensitivity	—	8-9
Temperature limit	°C	50 (Max.)
Specific gravity	—	0.70
Spray pressure(25°C)	kg/cm <sup>2</sup>	4.2
Spray rate	g/10sec	23



## How to use

1. Please clean the contaminants on the surface that needs to be tested with cleaner(Mega Check).(Dry Time 5 ~10min)
2. Please form the magnetizing current magnetic field.
3. Please spray the fluorescent magnetic particle spray (FM-25) evenly.
4. Please shine the Black Light (Ultraviolet Ray Wavelength 365nm).
5. Please examine the testing area with naked eye.



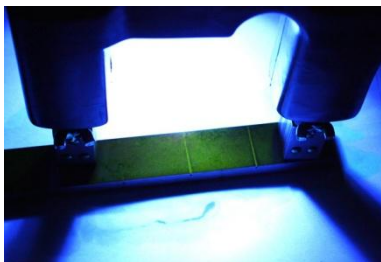
1. Cleaning of Testing Object



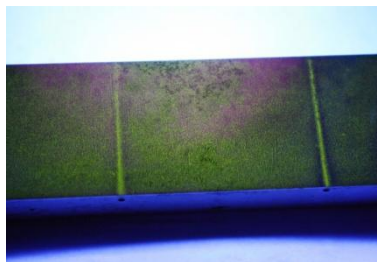
2. Forming the magnetizing current magnetic field



3. Spray FM-25  
(fluorescence Magnetic particle)



4. Black light survey



5. Examine the defective area with naked eye

## Cleaning after the Test

In order to remove the particles on the testing area easily, please demagnetize it before cleaning.

## Related Specification

ASTM E1444, ASME B & PV Code, Sec.V, NAVSEA 250-1500-1, ASTM E-709(E-138), MIL-STD-271, AMS-3044, AMS-3042, Cummins IS-16048-13, MIL-STD-2132, Boeing PS21201, British STD. B.S. 4069



## Cautions

Do not spray directly onto the face or food. Do not inhale or intake.

Keep it out of the reach of children.

As this is an inflammable product using high pressure gas, keep the following cautions carefully.

1. Do not spray directly toward open flame.
2. Do not use it near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
3. Do not use it in an environment where there are explosive or inflammable materials.
4. Store the product in places where the temperature does not exceed 40°C.
5. After used in enclosed areas, be sure to ventilate.
6. Do not throw into a fire.
7. After use, throw it away after checking and removal the remaining gas in the container.
8. Do not store it in enclosed area.
9. Below 5°C, injection power may be poor.

※ This information can be amended without any notice according to new knowledge and test result. If there are any questions, please contact us or the store where you purchased it.

