MPF Magnetic Particle Fluid

Technical Data Sheet

Description: MPF is a magnetic particle suspension fluid designed for wet method magnetic particle inspection. Complies with low sulfur and low halogen requirements.

Chemical Properties

Color:	Clear Liquid	Viscosity:	2.5C cSt @ 100^0F
Fluorescense:	None	Boiling Point:	450^0F (232^0C)
Flash Point:	210^0F (98^0C)	Specific Gravity:	0.81

Companion Products

CP-1 Contrast Paint	CP-2 Contrast Paint
Glo-netic	GW-1

Packaging

Five Gallon Cans	Fifty-five Gallon Drums

Storage/Shelf Life

Keep away from moisture and sunlight.

Temperature limit: 40^0F to 125^0F (4-50^0C)

Keep the container closed when not in use.

Shelf life from invoice date: Bulk Container – 36 months

Specifications

SAE AMS 2641 DOD F-87935

Pratt & Whitney ASME B & P Code Sec.

Special Features

1. MPF has a flash point over 200^{0}F (93^{0}C).
2. MPF has no odor, no fluorescence and no yellow color.
3. MPD has a low background for assured indication visibility.
4. MPF is low in sulfur and halogen contaminates.

Instructions

Note: These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specification and /or inspection criteria provided by the contracting agency.

1. Clean the test surface and allow to dry.
2. Magnetize the area to be inspected.
3. Fill the magnetic particle tank or container to the proper level with **MPF**, and start to agitate the fluid. Add the pre measured amount of magnetic particles to the agitated fluid. The mixture should be agitated for 15 minutes before measuring the concentration.
4. Apply the solution to the test part with the magnetic equipment in contact.
5. Allow the excess oil to run off the surface.
6. Inspect the surface with appropriate lighting.
7. Clean and repeat the process, changing the magnetizing equipment by 90^0.

Health & Safety

MPF is a combustible liquid. Use with adequate ventilation and away from sparks, fire or open flames. Avoid prolonged or repeated contact with skin. Do not take internally. Consult the MSDS for more safety and health information.