



F9-Oil based

PRODUCT DATA SHEET

Fluorescent Powder for Wet Method Magnetic Particle Inspection

DESCRIPTION

ZChек F9 is a Green Colored Magnetic Particle Powder designed to be fluorescing Bright - Green under UV Light. ZChек F9 consists of high sensitivity particles for detection of very fine, medium, and shallow discontinuities in Ferromagnetic materials. Using the state-of-the-art encapsulation technology, ZChек F9 is manufactured to exhibit excellent properties (High permeability, low retentivity, high mobility and optimum particle distribution) required for high sensitive fluorescent MPI process.

ZChек F9 is oil-based powder, hence it needs to be used with ZChек 801 Cart oil. However, when added with suitable water conditioner WA9, ZChек F9 can also be used with water as a carrying medium.

CONFORMANCE / SPECIFICATION COMPLIANCE

- ASM E B & PV Code, Sec V
- AMS 3044
- ASTM E 1444/E 1444M
- ASTM E 709
- EN ISO 9934-2

APPLICATIONS:

ZChек F9 is designed to detect medium to fine surface and slightly subsurface discontinuities like inclusions, seams, shrink cracks, tears, laps, flakes, welding defects, grinding cracks, quenching cracks, and fatigue cracks in forgings, castings, auto components (machining cracks, grinding cracks, heat treatment cracks), fabrication, steel making (billets and bars), surface transportation, oil and gas.

TYPICAL PROPERTIES:

Color Under White Light	Green
Color Under Black Light	Bright Green Fluorescence
Mean Particle Size	9- 14 Microns
Particle Size Range	1-20 Microns
Sensitivity	7 (Ketos Ring)
Max. Operating Temperature	49°C Maximum
Settling volume	0.05-0.15 ml

DIRECTIONS FOR USE

Use F9 at 0.75 – 1.0 gram per liter. Run the pump for 15 minutes before testing.

- Check the concentration before use at least once each shift using centrifuge tube.
- Parts should be clean and dry prior to testing.
- The bath must be under continuous agitation
- Using the wet continuous method, the bath is applied to all surfaces of the part. The instant the bath stream is removed from the part, the magnetizing current is applied.

PACK SIZES

1 kg X 4 Nos-1 Carton box

0.5 kg X 4 Nos-1 Carton box

HEALTH & SAFETY

Information on Health & Safety is made available through Material Safety data sheets and the same can be reviewed through the company's website www.zchem.in

STORAGE & SHELF LIFE

Packed Powders have a shelf life of 5 years if unopened and stored as per ZChem Recommendations

Manufactured By:

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Disclaimer: We have taken best care to ensure that the information provided in this data sheet is accurate. Our product is guaranteed to conform to the specifications provided. We make no other warranty; hence the liability is limited to replacement of product only.

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