

F18W – Fluorescent Powder for Wet Method MPI

DESCRIPTION

ZChek - F18W is a Brown Colored water based Magnetic Particle Powder designed to be fluorescing Bright Yellow- Green under UV Light. ZChek F18W consists of ultra-high sensitivity particles for detection of very fine discontinuities in Ferromagnetic materials. Using the state-of-the-art encapsulation technology, ZChek F18W is manufactured to exhibit excellent properties (High permeability, low retentivity, high mobility and optimum particle distribution) required for high sensitive fluorescent MPI process. Special additives in F18W provide excellent particle mobility in water medium and avoid flash

CONFORMANCE / SPECIFICATION

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

APPLICATIONS

ZChek F18W is designed to detect medium to very fine, medium and shallow , surface and slightly subsurface discontinuities like inclusions, seams, shrink cracks, tears, laps, flakes, welding defects, grinding cracks, quenching cracks, and fatigue cracks in Aerospace and Aviation parts, Nuclear Power, Defense, forgings, castings, auto components(machining cracks, grinding cracks, heat treatment cracks), fabrication, steel making (billets and bars), surface transportation, oil and gas, and all applications which involve further processing like machining and oiling.



TYPICAL PROPERTIES

Colour Under White Light	Dark Brown
Colour Under Black Light	Yellow Green Fluorescence
Mean Particle Size	6 Microns
Particle Size Range	1-16 Microns
Sensitivity	8-9(Ketos Ring)
Max. Operating Temperature	49 °C Maximum
Settling Volume	0.1-0.4 ml

DIRECTIONS FOR USE

- Use F18W at 10-11 grams per litre. Run the pump for 15 minutes before testing.
- Check the concentration before use at least once each day 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

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:

ZChem Specialities Pvt. Ltd.

Sy.No. 11/2/6, Puradapalya Village, Tavarkere Hobli, Bangalore – 562130, India

Phone +917349177755 & +917349277755 Email – info@zchem.in , Website – www.zchem.in

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.