



SUPERGOLD-WS

FLUORESCENT POWDER CONCENTRATE

Supergold-WS is a dry powder concentrate which is dissolved directly in water to give an Aqueous fluorescent magnetic solution which is ideal for the inspection of ferromagnetic materials, structures and components by the magnetic particle inspection technique.

Supergold-WS is used extensively in the automotive industry for the detection of grinding or heat treatment cracks as well as forging bursts, laps, porosity, inclusions and other discontinuities.

Supergold-WS incorporates a water treatment system which suspends the magnetic particles and enables the product to wet the surface being tested and also includes corrosion inhibitors to provide protection against corrosion of parts during and after testing.

Indications appear brilliant yellow-green when viewed under UVA (Black Light) of peak wavelength of 365nm. Individual specifications may vary, but normal minimum viewing intensity is 1200 watts/sq.cm. at a distance of 15-18 inches from the component surface.

Typical Properties

Appearance; Light green powder

Average particle size 5 micron

Settlement - 0.1 - 0.3 (Prepared bath)

pH of working solution < 10

Concentration

Use 10gm of Supergold-WS and dissolve with 1 liter water. It provides a magnetic solution which meets the requirements of the appropriate specifications.

Supergold-WS may be used at different dilutions, but this will directly affect the level of magnetic particle and corrosion inhibition in the final mix.

Method of Use

The prepared bath of magnetic solution must be agitated before and during use to ensure that the magnetic particles are maintained in suspension. The prepared solution can be applied by spray or flooding and when residual magnetic field method is used by immersion.

When the continuous magnetisation method is used, The application of solution must be stopped before the magnetising current is switched off.

Packaging

Supergold-WS is available in, 1 kg, 5 kg and 25 kg containers.

Health & Safety

For detailed information, consult the detailed material safety data sheet.



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