



SUPERGOLD POWDER

DESCRIPTION

Supergold Powder consist of finely divided Fluorescent Magnetic Particles which will Fluoresce brilliant yellow / green under ultraviolet wavelength of 365 nanometres. The particles have been selected for their high magnetic response, to avoid coagulation and prolonged operational life. Supergold has low coercivity property.

Typical Properties

Particle size - 4-5 Microns (mean)

Settlement - 0.1 - 0.3 (prepared bath)

Preparation of bath

Supergold powder is used by mixing directly with a suitable carrier fluid such as high flash point odourless kerosene. Alternatively, Supergold powder is added at concentrations between 0.8gm and 1.0gm / Litre which will give approximate settlement volumes of between 0.15% and 0.30%

Method of Use

The surface of the components to be inspected should be cleaned prior to testing as any contamination on the component can mask any indications and contaminate the magnetic particle solution.

Components are magnetised using the appropriate technique and the Supergold solution is applied during magnetisation. Application of the solution should cease before the magnetizing source is switched off to enable the particles to migrate to the area of flux leakage. The component surfaces should be inspected under UVA of minimum output of 1,000 watts per square cm. and peak wavelength of 365 nanometers. The ambient light should also be less than 10 lux. Individual specifications may vary. Application of the prepared Supergold solution may be used by spray or flow-on on immersion.

Packaging

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

Health & Safety : For detailed information on Supergold powder please refer to the material safety data sheet.



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