

Product **FLUXO 3** Reference **TDS23B** Date **01/02/2010** Page **1/1****FLUXO 3**Concentrate of black magnetic particles  
in petroleum carrier fluid

**Inspection** : The part is subjected to an intense magnetic flux, which is deviated by the presence of a defect. This escape attracts the particles of the product and the defects now are clearly visible as fluorescent or black lines.

**Composition** : **FLUXO 3**: very finely divided black magnetic particles suspended in high flash point odourless kerosene designed to provide good particle mobility.

**Use** : This Magnetic particle examination is used for the detection of emerging defects in all ferromagnetic materials. Applicability: Aeronautics, Automobile, Railway, etc...

Components are magnetised and **FLUXO 3** is applied to the test area, normally by spraying immediately prior to and during magnetisation. Application of **FLUXO 3** should cease before the magnetisation is switched off. Defects will show up as well defined black indications and inspection should take place in good white light of at least 500 lux.

It is not practical to use **FLUXO 3** on dark coloured substrates as it would be difficult for the inspector to identify indications against the dark background. For this reason, **FLUXO 7** is frequently used to provide a contrasting white background against the black indications thereby enabling the inspector see and interpret indications more easily. (Alternatively, fluorescent fluids such as **FLUXO 6** may be used, but this requires the availability of a UV Light)

**Specifications** :

- **NF EN ISO 9934-2**
- **AMS 2641** Type 2 Vehicle, Magnetic Particle Inspection, Petroleum Base
- **AMS 3041D** Magnetic Particles, non-fluorescent, Wet method, oil vehicle, ready to use
- **ASTM E1444-01**- Section 5.8
- **ASME BOILER AND PRESSURE VESSEL CODE**, SECTION V, 2004 Ed
- **Code RCC-M** Edition 2000 - Tome III - § MC 5135 "Liqueurs magnétiques"
- **Low in Sulphur & Halogens (Nuclear Quality)**
- **ASTM SE-709**

**Characteristics** : **FLUXO 3** is in conformity with the international standard **ISO 9934-2** concerning magnetic particle inspection products, in particular on the following points:

- ✓ Performance: 70mm in reference block type 2
- ✓ Aspect & colour: black suspension
- ✓ Particules size: 1 µm
- ✓ Corrosion test: level 0 (according standard ISO 9934-2)
- ✓ Mechanic stability : stable product
- ✓ Stability in time: minimum 18 months
- ✓ Density : 815 g.cm<sup>-3</sup> (15°C)
- ✓ Settlement rate (1 hour) : 1,2 to 2,4/100 ml

**Packaging** : 10L drums - 500mL AEROSOL CAN

**SREM Technologies can make any modifications**