

Magnaglo/Magnaflux MG/MX Carrier II

**OIL BASED CARRIER
FOR MPI**

General Description

Magnaglo/Magnaflux MG/MX Carrier II is an oil based carrier fluid used for the suspension of all Magnaflux and Magnaglo wet method magnetic particles.

MG/MX Carrier II has a low odour and contains special additives to minimise background fluorescence when using fluorescent materials.

Composition

MG/MX Carrier II consists of a blend of low odour high flash petroleum distillates.

Benefits

- ✓ Low odour
- ✓ High flash point
- ✓ Easy to use
- ✓ Cost effective

Typical Properties (Not a specification)

Property	Carrier II
Flash point	> 93°C
Density	0.88 g/ml
Viscosity @ 38°C	3.0 cS
Sulfur content	< 250 ppm
Chloride content	< 250 ppm

Like all MAGNAFLUX materials, MG/MX Carrier II is closely controlled to provide unique batch to batch consistency and uniformity to assure optimum process control and inspection reliability.

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Method of Application

MG/MX Carrier II is supplied ready to use. The magnetic particles should be added to the carrier at the recommended concentration and thoroughly mixed to ensure an even suspension. The ink strength should be checked prior to use.

Components should be cleaned prior to testing to provide a suitable test surface and to prolong bath life. This can be easily and effectively achieved by using a solvent cleaner such as SKC-S.

The ink must be mixed thoroughly prior to use and must be kept agitated during testing.

Bath Replenishment / Concentration Control

When in use, the magnetic content of any ink will become depleted. To guard against this the ink strength should be checked at least once each day.

The most widely used method of control is by settlement volume using a graduated ASTM pear shaped centrifuge tube.

When the settlement volume approaches the lower limit then additions of the appropriate particles can be made to the bath, providing the bath liquid is still clean and uncontaminated.

If the bath appears contaminated or has been in use for any length of time, the contents should be replaced.

After inspection the components should be properly demagnetized before cleaning to insure ease of particle removal.

MG/MX Carrier II should be used at temperatures between 10°C and 50°C.

Specification Compliance

Specification	MG/MX Carrier II
<input type="checkbox"/> A-A-59230C	✓
<input type="checkbox"/> AMS 2641A	✓
<input type="checkbox"/> ASME B & PV Code, Sec V	✓
<input type="checkbox"/> ASTM E-1444	✓
<input type="checkbox"/> DOD-F-87935	✓
<input type="checkbox"/> PWA PMC 1887	✓

Availability

MG/MX Carrier II is available as follows:

- 25 litre containers, part number 058C024
- 200 litre drums, part number 058C028

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Health and Safety

- Safety data sheets for this product are available on request from your Magnaflux distributor or via the Magnaflux website (www.magnaflux.com)
- Read the relevant safety data sheets before use
- Avoid contact with skin and eyes
- Avoid breathing spray mists
- Wear suitable gloves and eye protection if there is a risk of skin or eye contact

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