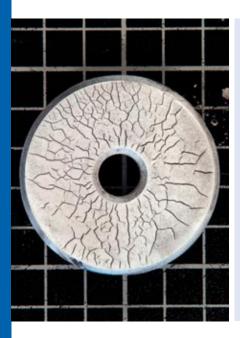


## **Magnetic Testing with Lumor® and Supramor®**

High-Performance NDT Products for the Automotive, Energy and General Industries



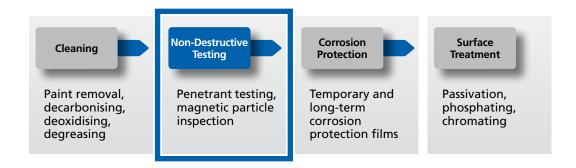
#### **Advantages**

- √ Complete product portfolio
- √ High-sensitivity products
- √ Low background fluorescence
- ✓ Crisp indications
- √ Easy application
- √ Comprehensive equipment range
- ✓ Local service and support

### **Applications**

- ✓ MT for the detection of surface and near-surface defects in ferro-magnetic materials
- √ Supramor: for applications requiring inspection under white light
- ✓ Lumor: for applications requiring inspection under UV(A)-light

Chemetall provides an extensive product portfolio for surface treatment prior to, during and after non-destructive testing. A comprehensive range of equipment for these applications and the reliable service of local Chemetall experts complete the product portfolio.





# Magnetic Testing with Lumor® and Supramor®

Chemetall's proven, high-performance Lumor® and Supramor® specialty chemicals have been specifically developed to meet the demanding requirements of national and international industry quality standards. The products conform to numerous standards.

Product	Description	Appearance	Application	Packaging	Conformances
WHITE LIGHT					
Supramor® 4 Black	Very fine black magnetic particles in high-flash type 1 hydrocarbon carrier; good particle mobility, high magnetic response, low coercivity	Fluid	Ready-for-use (type 1 hydro- carbon carrier)		EN ISO 9934-2:2003 ASME Boiler & Vessel Code AMS 3041E ASTM E 1444-05
WCP 712 White Contrast Paint	Provides a dense white back- ground against which black or red indications of defects can be seen readily; ideal for use with oil-based or water-based magnetic inks	Fluid	Ready-for-use		EN ISO 9934-2:2003 ASME Boiler & Vessel Code
FLUORESCENT					
Lumor® J Powder	Fine fluorescent magnetic particles; will fluoresce brilliant yellow-green under ultraviolet radiation; high magnetic response, low coercivity	Dry powder	Mix with carrier fluid or pre- treated water		EN ISO 9934-2:2003 ASME Boiler & Vessel Code AMS 3044F ASTM E 1444-05
Lumor® J (HF)	Fine fluorescent magnetic particles, dispersed in high-flash type 1 hydro- carbon carrier; will fluoresce brilliant yellow/green under ultraviolet radiation	Fluid	Ready-for-use (dispersion in type 1 hydrocarbon carrier fluid)		EN ISO 9934-2:2003 ASME Boiler & Vessel Code AMS 3045E ASTM E 1444-05
Lumor® J (W) Powder	Dry blend of magnetic particles, wetting agents and corrosion inhibitors for dispersion in water; gives an aqueous fluorescent magnetic ink ideal for the inspection of ferromagnetic materials, structures and components	Dry powder concentrate	Disperse in water (typically 10 g/l)	•	EN ISO 9934-2:2003 ASME Boiler & Vessel Code AMS 3044F ASTM E 1444-05
Lumor® J40 (W)	Blend of magnetic particles, wetting agents and corrosion inhibitors for dispersion in water; provides a fluorescent magnetic ink ideal for the inspection of ferromagnetic materials, structures and components	Fluid concentrate	Mix with water (typical dilution rate 40 : 1)		EN ISO 9934-2:2003 ASME Boiler & Vessel Code AMS 3044F ASTM E 1444-05
CARRIER FLUID					
MPI Diluent HF	Type 1 hydrocarbon carrier for the dispersion of magnetic particle inks	Fluid	Add magnetic particles		AMS 2641A (Type 1) ASTM E 1444-05







## Chemetall

#### www.aerospace.chemetall.com

The product information contained in this brochure has been compiled to the best of our knowledge on the basis of thorough tests and research work and with regard to the current state of our practical experience in the industry. This product information is non-binding. Our statements relating to possible uses of the product do not constitute a guarantee that such uses are appropriate in a particular user's case or that such uses do not infringe the patents or proprietary rights of any third party. We assume no risk or liability whatever in connection with any particular use, if not expressly confirmed by us in writing. Therefore Chemetall grants no warranty and does not accept any liability in connection with this product information or its use.

Except where noted otherwise, all registered trademarks are owned by Chemetall or its affiliated companies. The reproduction of any or all of the information contained in this brochure is expressly forbidden without Chemetall's prior written consent.

<sup>\*</sup> Note: The aerosol version is called Lumor® J Aerosol