



PENETRANT PROFESSOR APPROVED

PRODUCT DATA SHEET

1  
3/09

MPI-86  
B, G, R, & Y



Met-L-Chek Company manufactures a complete line of Nondestructive Testing Materials. Met-L-Chek Company supplies fluorescent and visible dye penetrants, wet and dry magnetic particles and a variety of specialty testing materials. All Met-L-Chek Company products are designed to yield maximum value through quality, cost, and usability. Met-L-Chek Company products are sold under the **Met-L-Chek**® and **Pen-Chek**® trademarks. Met-L-Chek Company products are manufactured under license in The Netherlands by NDT Europa.

**MPI-86B** is a blue magnetic particle powder. **MPI-86G** is a grey magnetic particle powder. **MPI-86R** is a red magnetic particle powder. **MPI-86Y** is a yellow magnetic particle powder. They are designed for white light visible dry method inspection. They meet the requirements of **AMS-3040** and **ASTM E-1444** for visible dry method magnetic particle inspection. **MPI-86G**, **MPI-86B**, and **MPI-86Y** may be used on hot surfaces up to 426°C (800°F). **MPI-86R** is limited to 121°C (250°F) maximum.

Typical Physical Properties

Product Availability

Form: blue, grey, red, or yellow coarse powder.  
Density: 2500 g/L  
Particle size: 15-160µ  
SAE Relative Sensitivity: 6

3 Kg (6.6 lb) plastic jar  
5 Kg (11 lbs) plastic pail  
22.7 Kg (50 lbs) plastic pail

Specifications

The warranty shelf life of the product is 5 years from date of batch approval.

**AMS-3040**  
**ASTM E-1444**  
**ASME SE-709, B&PV code, section V, art. 7&25.**  
**ASTM E-709**  
**API RP 5A5**



MPI-86B



MPI-86G



MPI-86R



MPI-86Y

Transport: DOT: Bulk - not regulated.

Hazards Eye Irritant

Classification: **NFPA Health-1, Flammability-0, Reactivity-0.**

EU- unknown

WHMIS(Canada) D2B (bulk)

Human health hazards: Eye irritant.

First aid measures

**Eyes:** Check for contact lenses and remove. Flush eyes with clean water holding eyelids open. Seek medical attention.

**Skin:** Remove contaminated clothing. Wash exposed area with soap and water. Apply moisturizing lotion. Launder clothing and clean shoes.

**Swallowing:** Do not induce vomiting. Small amounts are not expected to cause significant harm, call a physician.

**Inhalation:** Remove to fresh air.

See MSDS for detailed health, safety, and disposal information.

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