

# PFINDER 251

## MAGNETIC PARTICLE SUSPENSION

### BLACK

oil-based, ready to use

#### DESCRIPTION

PFINDER 251 is a ready-to-use-suspension of black magnetic particles in low-viscos carrier oil with special additives for magnetic particle testing. With PFINDER 251 surface defects of magnetizable materials can be indicated under daylight conditions.

The particle concentration of PFINDER 251 meets the requirements of ASTM / AMS.  
 PFINDER 251 is suitable for testing at temperatures between 0°C and +50°C (temperature of work part).

The product is applied by direct spraying on the surface to be tested.

#### APPLICATION

Cover surfaces to be tested thinly and evenly with white contrast paint PFINDER 280. Allow to dry. Apply PFINDER 251 while magnetizing. Black indications will appear immediately on the white background.

The capability of the magnetic particle suspension should be checked regularly by means of own reference pieces or e.g. reference block 1 according EN ISO 9934-3.

Process description according EN ISO 9934-1 see <https://www.pfinder.de/en/ndt-testing/magnetic-particle-testing/>



#### YOUR GREEN NDT BENEFITS

- Nearly odourless
- Free of silicone, sec. amines, nitrites/halogens
- Aerosol spray can with minimized carbon footprint



#### YOUR HANDLING + COST SAVING BENEFITS

- Excellent sharp, quick and stable indications
- Product complies with all common specifications
- Compatible with non-ferrous materials

#### APPROVALS & CONFORMITIES

The product conforms to the following specifications / is suitable for use according to:

**EN ISO 9934-2, ASME V Art.7, ASTM E 1444, ASTM E 709, AMS 2641, AMS 3041, AMS 3043**

Low content of sulfur and halogens according to EN ISO 9934-2.

Please respect the relevant rules and specifications for your application.

#### PACKAGES IN STOCK / STORAGE CONDITIONS

500-mL-spray can (for 360° application).  
 These packages are on stock and instantly available. Other packages on demand.

Storage between +5°C and +45°C. Shake well or stir before use!



#### SHELF-LIFE

3 years

#### TECHNICAL PROPERTIES

Density/20°C	DIN EN ISO 12185	approx. 783 kg/m <sup>3</sup>	Settlement volume	AMS 3041	approx. 1,2-2,4mL/100mL
Viscosity/20°C	ASTM D 445	approx. 2,0 mm <sup>2</sup> /s	Settlement volume	AMS 3043	approx. 1,6mL/100mL
Flash point	ASTM D 93	approx. 70°C	Data of products packaged in aerosol spray cans might differ.		
Particle size dm	Pfinder 080.900Q01	approx. 1,5µm			