

# PFINDER 251

**MAGNETIC PARTICLE SUSPENSION** 

BLACK oil-based, ready to use

PFINDER KG Rudolf-Diesel-Strasse 14 71032 Böblingen/Germany + 49 (0) 7031-2701-999 ndt@pfinder.de www.pfinder-ndt.com

Version 3 / 16.02.2017

# 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 applicated 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 www.pfinder-ndt.de.



# 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

## **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 stirr before use!



 $\langle \bigcirc$ 

3 years

# **TECHNICAL PROPERTIES**

Density/20°C Viscosity/20°C Flash point Particle size dm DIN EN ISO 12185 ASTM D 445 ASTM D 93 Pfinder 080.900Q01

approx. 783 kg/m3 approx. 2,0 mm²/s approx. 70°C approx. 1.5µm

Particle concentration Particle concentration

AMS 3041 AMS 3043

approx. 1,2-2,4mL/100mL approx. 1,6mL/100mL

Data of products packaged in aerosol spray cans might differ.

The information contained herin is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest to evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material.



**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, RCC-M, PMUC.

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

> Please respect the relevant rules and specifications for your application.

> > SHELF-LIFE

