

# PFINDER 101

## Concentrate for magnetic particle inspection

Version 2 / (GB)  
811 1010  
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### Description

PFINDER 101 is a liquid suspension of yellow-green fluorescent, ferromagnetic pigments and special additives for magnetic particle testing. With PFINDER 101 surface defects of magnetizable materials can be indicated under UV-light (365nm). The concentrate PFINDER 101 is to be suspended in water. An even dispersion of the particles will be obtained very quickly.

PFINDER 101 offers advanced fluorescence brightness.

### Product benefits

- Brilliant indications by advanced fluorescence brightness.
- Odourless.
- Optimized foaming properties.
- With effective corrosion protection.
- Compatible with non-ferrous materials.
- Free of silicone, sec. amines, nitrites/halogens.
- Not hazardous acc. 1999/45/EC.

### Approvals / conformities

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

EN ISO 9934-2, AS 4792.

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

Please respect the relevant rules and specifications for your application.

### Application

The ideal use concentration may vary according to magnetisation strength, surface conditions, after-magnetisation terms and flushing time. Therefore following values should only be understood as an indication:

1 kg PFINDER 101 for 40 L water (2,5%).

Process description according EN ISO 9934-1 see [www.magneticparticletesting.com](http://www.magneticparticletesting.com).

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 (Art. no. 811 0000).

For handling of UV-light we generally recommend the use of suited protection wear, e.g. PFINDER safety glasses with 100% UV-filter (Art. no. 811 0600).

### Technical data

Density/15°C	DIN EN ISO 12185	approx. 1080 kg/m <sup>3</sup>
pH value*	DIN ISO 4316	8,0 ± 0,3
Borings test*	DIN 51360/II	0-1
Sheltered outdoor storage*		> 1 week
Content of magnetic particles	EN ISO 9934-2	13,0 g/L
Fluorescent coefficient	EN ISO 9934-2	approx. 8,5 cd/W
Particle size dm	Pfinder 80.900Q01	approx. 3µm
Long time stability*	EN ISO 9934-2	>168h
Temperatur resistance*	EN ISO 9934-2	>60°C

\* refers to a suspension of 2,5%.

### Delivery form

Red-brown liquid.

### Packages

5-L-canister, 1-L-bottle.

### Storage / shelf-life

Between +5°C and +45°C at least 2 years.  
Stir or shake well before use!

[www.magneticparticletesting.com](http://www.magneticparticletesting.com)

The information contained herein 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 that you 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.

### Pfinder KG

Rudolf-Diesel-Straße 14  
71032 Böblingen/Germany  
Postfach 17 69

Telefon:  
+ 49 (0) 7031-2701-0  
Telefax:  
+ 49 (0) 7031-280500

E-Mail:  
[pfinder@pfinder.de](mailto:pfinder@pfinder.de)  
Internet:  
<http://www.pfinder.de>