

# PFINDER 170

## MAGNETIC PARTICLE CONCENTRATE

### FLUORESCENT

suspendable in carrier oil



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#### DESCRIPTION

PFINDER 170 is an oil-suspendable concentrate of fluorescent magnetic particles with special additives for magnetic particle testing. PFINDER 170 indicates surface defects of magnetizable materials under UV light (365 nm).

The concentrate PFINDER 170 has to be stirred in carrier oil (e.g. PFINDER 550). An even dispersion of the particles will be obtained very quickly.

#### 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 l PFINDER 170 for 80 to 100 l oil (1,25 to 1,0 %).**

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.com](http://www.pfinder-ndt.com).



#### YOUR GREEN NDT BENEFITS

- | Odourless
- | Free of sec. amines, nitrites and halogens



#### YOUR HANDLING + COST SAVING BENEFITS

- | Excellent indications with low background fluorescence
- | Compatible with non-ferrous materials

#### APPROVALS & CONFORMITIES

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

EN ISO 9934-2 | ASME V Art.7 |  
ASTM E 1444 | ASTM E 709 |  
AMS 3044

Low content of sulfur and halogens according to EN ISO 3452-2.

#### PACKAGING

1-l-bottle

These packages are on stock and instantly available. Other packages on demand.

#### SHELF-LIFE & STORAGE

3 years

Storage between + 5 °C to + 45 °C / +40°F to 105°F  
Shake or stir well before use!

| CHARACTERISTIC DATA     | Specification      | Unit              | Value        |
|-------------------------|--------------------|-------------------|--------------|
| Density/20 °C           | EN ISO 12185       | kg/m <sup>3</sup> | approx. 800  |
| Particle size d10       | PFINDER 080.900Q01 | µm                | approx. 1,1  |
| Fluorescent coefficient | EN ISO 9934-2      | cd/W              | approx. 3,8  |
| Particle concentration* | AMS 3045           | ml/100 ml         | approx. 0,10 |

\* Refers to a suspension of 1,25 %