

# visicolor® Powder Pillows

## Iron

Reagent for the photometric determination of iron with 1,10-phenanthroline in surface, ground and drinking water.

### Measuring range:

0.03–3.00 mg/L Fe

### Method:

Photometric determination of iron ions by 1,10-phenanthroline method.

### Hazard warning:

Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from [www.mn-net.com/SDS](http://www.mn-net.com/SDS).

### Procedure:

Requisite accessories: 2 test tubes 16 mm OD (REF 91680) or 2 test tubes 24 mm OD (REF 936101)

**1** Rinse test tube several times with sample (*pH value of sample must be between pH 2 and 13*)

### Blank (optional):

- 2** Fill one test tube with **10 mL** of sample
- 3** Clean test tube
- 4** Place test tube in photometer as blank value and adjust for zero

### Sample:

- 5** Fill another test tube with **10 mL** of sample
- 6** Add content of **1 Powder Pillow Iron**
- 7** Close test tube and shake well
- 8** Clean test tube
- 9** Wait for **2 min**
- 10** Measure

Alternatively, 5 mL of sample can also be used in the procedure.

### Measurement:

Let samples that contain rust react for 5 minutes or more.  
See manual for all MACHERY-NAGEL photometers.  
After use, rinse out test tubes thoroughly and seal them.  
Suitable for the analysis of sea water.

### Interferences:

The temperature of the water sample should be between 20 °C and 30 °C.  
A yellowish coloration of the powder is normal and does not influence the measurement result.

### Disposal of samples:

Information regarding disposal can be found in the safety data sheet. You can download the SDS from [www.mn-net.com/SDS](http://www.mn-net.com/SDS).

