



# Mi452 - Photometer

## for the determination of IRON in wine analysis



Mi452 is a user-friendly photometer for monitoring iron in red and white wine. This instrument provides greater resolution, better accuracy and immediate results.

It is important to monitor iron content in wine because it plays an important role since it favors oxidation, it alters the sensory characteristics of wine and it participates in the formation of complexes with tannins and phosphates which result in instabilities, known as casse. Iron content of wine can be found from very low amounts up to 20 mg/L.

Milwaukee's Wine - Photometers are manufactured to be easy to use, practical and accurate. Ideal for laboratory use.

The photometer has an advanced optical system based on a special tungsten lamp and a narrow band interference filter that allows most accurate and repeatable readings. The instrument is factory calibrated.

### Step 1

Prepare the sample to be measured with wine and Iron Reagents and zero the instrument.



### Step 2

Add reagent in the cuvet, insert it in the instrument and note the reading on the LCD.



Mi452	Iron
Range	0.0 to 15.0 mg/L
Accuracy	typical $\pm 5\%$
Light Source	tungsten lamp with narrow band interference filter @ 560 nm
Sensor	silicon photocell
Method	the reaction of iron with the reagent causes the sample to turn purple
Environment	0 to 50°C; max RH 95%
Battery Type	4 x 1.5V AA
Auto-off	after 15 minutes of non-use
Dimensions	225 x 85 x 80 mm
Weight	0.5 kg

### Accessories

- Mi552-020 Iron reagent set (20 tests)
- Mi0004 Tissue for wiping cuvetts (4 pcs)
- Mi0024 1000  $\mu$ L pipette (1 pc)
- Mi0025 Pipette tips for 1000  $\mu$ L pipette (25 pcs)
- Mi0011 10 mL glass small cuvetts (2 pcs)
- Mi0014 Caps for cuvetts for wine colorimeters (2 pcs)
- Mi0013 Stopper 10 mL small cuvetts (2 pcs)
- Mi0006 Battery 1.5V AA (4 pcs)



### Ordering Information

Mi452 is supplied complete with:  
Reagents for 20 tests, 1000  $\mu$ L pipette, 1 mL short pipette, 2 small cuvetts with cap and stopper, tissue for wiping cuvetts, 4 x 1.5V AA batteries and instruction manual.

