

Nickel 50 L M255

0.02 - 1 mg/L Ni

Dimethylglyoxime

Instrument specific information

The test can be performed on the following devices. In addition, the required cuvette and the absorption range of the photometer are indicated.

Instrument Type	Cuvette	λ	Measuring Range
SpectroDirect, XD 7000, XD 7500	□ 50 mm	443 nm	0.02 - 1 mg/L Ni

Material

Required material (partly optional):

Reagents	Packaging Unit	Part Number
Nickel Reagent Test	1 pc.	2419033

The following accessories are required.

Accessories	Packaging Unit	Part Number
Measuring spoon no. 8, black	1 pc.	424513

Application List

- Galvanization
- · Raw Water Treatment
- · Waste Water Treatment

Preparation

- The test sample and the reagents should be at room temperature when undertaking the test.
- 2. The pH value of the sample must be between 3 and 10.

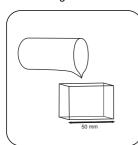




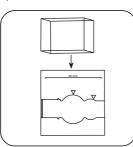
Determination of Nickel with Reagents test

Select the method on the device.

For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500



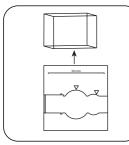
Fill 50 mm vial with sample.



Place **sample vial** in the sample chamber. • Pay attention to the positioning.



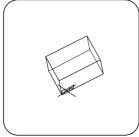
Press the **ZERO** button.



Remove **vial** from the sample chamber.



Empty vial.

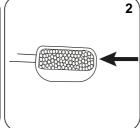


Dry the vial thoroughly.

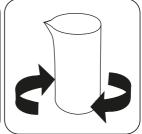
For devices that require no ZERO measurement, start here.



Fill a suitable sample vessel with 10 mL sample



Add 2 level measuring scoop No. 8 (black) Nickel-51.

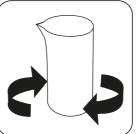


Invert several times to mix the contents.

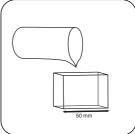




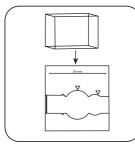
Add 0.2 mL Nickel-52.



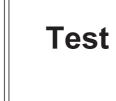
Invert several times to mix the contents.



Fill 50 mm vial with sample.



Place **sample vial** in the sample chamber. • Pay attention to the positioning.



Press the **TEST** (XD: **START**)button.



Wait for 3 minute(s) reaction time.

Once the reaction period is finished, the measurement takes place automatically.

The result in mg/L Nickel appears on the display.



Chemical Method

Dimethylglyoxime

Appendix

Calibration function for 3rd-party photometers

Conc. = a + b•Abs + c•Abs² + d•Abs³ + e•Abs⁴ + f•Abs⁵

	□ 50 mm	
а	-1.35208 • 10 ⁻²	
b	9.07687 • 10 ⁻¹	
С		
d		
е		
f		

Bibliography

Photometrische Analyseverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart 1989