

COD Set-Up AL250COD VARIO

Determination of the chemical oxygen demand index (ST-COD)

Small-scale sealed-tube | Total range 0 - 15000 mg/l | (ISO 15705:2002)



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Waste water parameter COD

The chemical oxygen demand, ST-COD value, of water as determined by this dichromate method can be considered as an estimate of the theoretical oxygen demand, i.e. the amount of oxygen consumed in total chemical oxidation of the organic constituents present in the water.

Set-Up AL250COD VARIO

The AQUALYTIC® COD VARIO test set-up allows highly sensitive and precise water testing with minimum effort. It measures the ST-COD concentration by photometric detection employing a linear relationship between absorbance and concentration.

After adding the sample to a AQUALYTIC® COD VARIO tube test (LR, MR according to ISO 15705:2002), it is heated in the reactor and then analysed in a COD VARIO photometer.

The COD-Set-up comprises a COD VARIO photometer, 25 tube tests for each of the two lower measuring ranges, a reactor for sample digestion and a vial stand.

COD-Set-Up AL250 COD VARIO

complete with photometer, reactor AL125,
2 sets of 25 tubes each 0-150 mg/l and
0-1500 mg/l and tube stand

Order code
4269260

AL250COD VARIO Photometer

With a measuring range from 0 to 15,000 mg/l O₂, the AQUALYTIC® photometer are suitable for waste water testing.

Two LED light sources with long-term stability ($\lambda_1 = 605 \text{ nm}$; $\lambda_2 = 430 \text{ nm}$, according to ISO 15705:2002), a waterproof sample chamber, a large digital display, and the user-friendly keypad ensure maximum operating reliability and convenience.

AL250 COD VARIO

4269250

Ranges

0 – 150 mg/l O₂ ± 3,5%*

0 – 1500 mg/l O₂ ± 3,5%*

0 – 15000 mg/l O₂ ± 3,5%*

* based on the use of potassium-hydrogenephthalate standards (DIN 38 409)

COD VARIO tube tests

The AQUALYTIC® COD VARIO tube tests are available for the measuring ranges 0-150 mg/l O₂, 0-1500 mg/l O₂ and 0-15000 mg/l O₂. Their chemical properties and a 16 mm tube diameter is suitable also for use with Hach photometers.

Tube tests	Quantity	Order code
0 - 150 mg/l O ₂	(25 pc.) mercury free	420710
	(25 pc.)	420720
	(150 pc.)	420725
0 - 1500 mg/l O ₂	(25 pc.) mercury free	420711
	(150 pc.) mercury free	420716
	(25 pc.)	420721
	(150 pc.)	420726
0 - 15000 mg/l O ₂	(25 pc.) mercury free	420712
	(25 pc.)	420722
	(150 pc.)	420727

Standard solutions

Standard solutions are solutions with a defined concentration and are provided to check the operation methods and devices of the cuvette tests as well as the condition of optical filters and the instrument.

Standard solutions	Quantity	Order code
100 mg/l COD	30 ml	420803
500 mg/l COD	30 ml	420804
5000 mg/l COD	10 ml	420805

Highlights

- ST-COD sealed tubes ready for use
- Suppression of chloride interference up to 1000 mg/l (for not mercury-free tube tests only)
- 3 ranges:
 - Low range:
0 - 150 mg/l, meets ISO 15705:2002
 - Middle range:
0 - 1500 mg/l, meets ISO 15705:2002
 - High range:
0 - 15000 mg/l