

Chemical Oxygen Demand

Chemical oxygen demand (COD) is a vital test for assessing the quality of effluents and waste waters prior to discharge. The COD test predicts the oxygen requirement of the effluent and is used for the monitoring and control of discharges, and for assessing treatment plant performance.

The standard test for COD involves digesting the sample with strong sulphuric acid solution in the presence of chromium and silver salts. These potentially hazardous chemicals clearly need to be handled with extreme care.

The Palintest COD Tubetests system offers a method which is both practical and convenient. The reagents are supplied premixed keeping potentially hazardous chemicals to a minimum. The test is simply carried out by adding the sample to the tube, closing the cap and then digesting for two hours at 150°C. The tubes are then cooled and the test colour measured using a Palintest photometer.

Palintest Tubetests are integrated with the Palintest photometer system so as to provide a complete system for COD measurement. Palintest COD Tubetests are offered in five ranges: 150 mg/l, 400 mg/l, 1000 mg/l, 2000 mg/l and 20,000 mg/l.

The reagent formulations are based on those specified in recognised international standard methods and meet the requirements of conformity testing against national and international standards.

Four types are available, allowing the user to choose the most environmentally-friendly product for their application:

- The mercury-free formulation is recommended for general use
- The formulation with mercuric sulphate (M) is provided for use in standard procedures which require the suppression of interference due to moderate levels of Chloride
- The high Chloride formulation (2M) provides much higher levels of chloride suppression and is suitable for working with samples with very high Chloride levels
- The new M/C formulations with mercuric sulphate are specifically for use in non-Palintest instruments, and allow users of compatible instruments to take advantage of the price, quality, and service we offer, whilst using their existing instrumentation. The new product comes in 3 ranges: up to 150 mg/l, up to 1500 mg/l and up to 15,000 mg/l.



Ordering Information

CODE	DESCRIPTION (25 tests per carton)	RANGE (ppm)
PL 450	COD/150 Tubetests/Mercury Free	5 - 150
PL 452	COD/400 Tubetests/Mercury Free	20 - 400
PL 453	COD/1000 Tubetests/Mercury Free	10 - 1,000
PL 454	COD/2,000 Tubetests/Mercury Free	50 - 2,000
PL 456	COD/20,000 Tubetests/Mercury Free	500 - 20,000
PL 460	COD/150/M Tubetests with Mercury	5 - 150
PL 462	COD/400/M Tubetests with Mercury	20 - 400
PL 463	COD/1000/M Tubetests with Mercury	10 - 1,000
PL 464	COD/2,000/M Tubetests with Mercury	50 - 2,000
PL 466	COD/20,000/M Tubetests with Mercury	500 - 20,000
PL 461	COD/150/2M Tubetests with Mercury	5 - 150
PL 468	COD/1000/2M Tubetests with Mercury	10 - 1,000
PL 465	COD/2,000/2M Tubetests with Mercury	50 - 2,000
PL 467	COD/20,000 Tubetests with Mercury	500 - 20,000
PL 481	COD/150 M/C Tubetests with Mercury	5 - 150
PL 484	COD/1,500 M/C Tubetests with Mercury	50 - 1,500
PL 486	COD/15,000 M/C Tubetests with Mercury	500 - 15,000

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