



a xylem brand **Technical Performance Specification for YSI Photometers**

TEST	WORKING RANGE mg/l	DETECTION LIMIT mg/l	TOLERANCE (± mg/l @ mg/l)
Alkalinity, Total (Alkaphot)	0 - 500	10	± 7 @ 200
Alkalinity M (Alkaphot M)	0 - 500	10	± 5 @ 200
Alkalinity P (Alkaphot P)	0 - 500	10	± 5 @ 200
Aluminium	0 - 0.5	0.02	± 0.02 @ 0.20
Ammonia	0 - 2.0 (N)	0.01	± 0.01 @ 0.25
Ammonia Tubetests®	0 - 12 (N)	0.15	± 0.1 @ 1.0
Ammonia Tubetests®	0 - 50 (N)	0.7	± 0.3 @ 5.0
Boron	0 - 2.5	0.05	± 0.05 @ 1.00
Bromine	0 - 10.0	0.04	± 0.05 @ 1.00
Calcium Hardness (Calcicol)	0 - 500	5	± 5 @ 100
Chloride (Chloridol)	0 - 50	0.5	± 0.5 @ 10.0
Chlorine DPD	0 - 5.0	0.01	± 0.03 @ 1.00
Chlorine Dioxide (DPD) (ClO ₂)	0 - 10	0.02	± 0.03 @ 1.00
Chlorine HR	0 - 250	1	± 2 @ 50
Chromium (Chromicol)	0 - 1.0	0.02	± 0.02 @ 0.3
COD	0 - 150	3	± 6 @ 135
	0 - 400	5	± 10 @ 360
	0 - 2000	10	± 60 @ 1790
	0 - 20,000	100	± 600 @ 17,900
Copper (Coppercol)	0 - 5.0	0.03	± 0.04 @ 1.00
Cyanuric Acid	0 - 200	2	± 10 @ 100
Fluoride	0 - 1.5	0.1	± 0.05 @ 1.00
Hardness (Hardicol)	0 - 500	5	± 5 @ 100
Hydrogen Peroxide LR	0 - 2.0	0.02	± 0.01 @ 0.50
Hydrogen Peroxide HR	0 - 100	1	± 1 @ 25
Iron LR	0 - 1.0	0.01	± 0.01 @ 0.20
Iron HR	0 - 10	0.05	± 0.25 @ 2.0
Iron MR	0 - 5.0	0.02	± 0.05 @ 1.00

TEST	WORKING RANGE mg/l	DETECTION LIMIT mg/l	TOLERANCE (± mg/l @ mg/l)
Magnesium (Magnecol)	0 - 100	2	± 1 @ 20
Manganese	0 - 0.03	0	± 0.002 @ 0.010
Molybdate LR	0 - 15	0.2	± 0.15 @ 2.0
Molybdate HR	0 - 100	0.5	± 1 @ 25
Nickel (Nickeltest)	0 - 10	0.12	± 0.10 @ 2.0
Nitrate (Nitratest)	0 - 20 (N)	0.2	± 1.0 @ 10.0
Nitrate Tubetests®	0 - 30 (N)	0.3	± 0.4 @ 10
Nitrite (Nitricol)	0 - 0.5 (N)	0	± 0.002 @ 0.100
Nitrite (Nitriphot)	0 - 1500	10	+/- 5 @ 100
Organophosphonate	0 - 20	0.2	+/- 0.25 @ 5.00
Ozone	0 - 2.0	0.01	± 0.02 @ 0.50
pH (Phenol Red)	6.8 - 8.4	6.80 - 8.40	± 0.05 @ 7.00
Phenol	0 - 5.0	0.07	± 0.05 @ 1.0
PHMB	0 - 100	2	± 2 @ 50
Phosphate LR	0 - 4.0	0.03	± 0.03 @ 1.00
Phosphate HR	0 - 100	1	± 3 @ 50
Potassium	0 - 12	0.5	± 0.5 @ 5.0
Silica LR	0 - 4.0	0.02	± 0.04 @ 1.0
Silica HR	0 - 150	0.5	± 2.0 @ 50.0
Sulphate	0 - 200	5	± 4 @ 50
Sulphide	0 - 0.5	0.01	± 0.01 @ 0.10
Sulphite (Sulphitest)	0 - 500	5	± 5 @ 100
Zinc	0 - 4.0	0.02	± 0.03 @ 1.00

Working Range - This is the overall working range of the reagent system. This information should be read in conjunction with the measuring range of the equipment or test kit being used which may be more restricted.

Detection Limit - This is the lowest limit which can be reliably detected using the reagent system.

Tolerance - This is the manufacturing tolerance against which the reagent system is quality controlled by testing against standard solutions.

These specifications are based on test reagents being used in the manner described in our published test instructions. Specifications are subject to change without notice.