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Gas Detection Tube Data Sheet

Chlorine Cl₂ No. 10-106-20

	Extended Range	Standard Range	Extended Range
Range (ppmv)	2.5 - 50	5 - 100	10 - 200
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 2	2	1.5
Correction Factor	0.5	1	2

Precision (Relative Standard Deviation)*: $\leq \pm 20\%$

Linearity with No. of Pump Strokes: $r^2 = 0.999$

Humidity: No effect between 0-90%RH.

Temperature Range: No effect between 0 - 40°C (32 - 104°F)

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Orange

Reaction Principle: Cl₂ + o-Tolidine → Orange colored product + HCl

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
ClO ₂	10	9
CO	250	0
CO ₂	50000	0
NO	100	5
NH ₃	100	0
CH ₄	25000	0
H ₂ S	5000	0
SO ₂	10	0
Hexane	100	0
Isobutylene	100	0
Toluene	100	0

*Data based on RAE pumps and tubes used in standard range.

Other Possible Interferences: Other oxidizing gases.

Caution: Dispose of spent or expired tubes according to local regulations.
Possibly hazardous materials are given under the section Reaction Principle.