

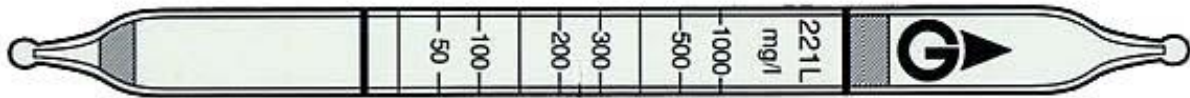


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## Gastec Tube Datasheet

Chloride Ion Cl<sup>-</sup>

No. GAS221L



### Performance

|  |   |
|--|---|
| Measuring Range                                | 25 to 1000 mg/l   |
| Sampling Time                                  | 3 minutes   |
| Detecting Limit                                | 1 mg/l  |
| Colour Change                                  | Brown → White   |
| Reaction Principle                             | $2\text{Cl}^- + \text{Ag}_2\text{CrO}_4 \text{ (Brown)} \longrightarrow 2\text{AgCl} \text{ (White)}$ |
| Coefficient of Variation                       | 15% (for 25 to 300 mg/l), 10% (for 300 to 1000 mg/l)  |
| Shelf Life                                     | Up to 3 Years   |
| Corrections for temperature & humidity         | Unnecessary   |
| <b>Store the tubes at cool and dark place.</b> |   |

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#### Possible coexisting substances and their interferences

| Substance                     | Concentration | Interference | Change colour by itself       |
|-------------------------------|---------------|--------------|-------------------------------|
| CN <sup>-</sup>               | ≥1 mg/l       | Plus error   | White discoloration           |
| Br <sup>-</sup>               | ≥10 mg/l      | Plus error   | White discoloration           |
| SCN <sup>-</sup>              | ≥30 mg/l      | Plus error   | White discoloration           |
| Fe <sup>2+</sup>              | ≥200 mg/l     | Minus error  | No discoloration (≤1000 mg/l) |
| Fe <sup>3+</sup>              | ≥200 mg/l     | Minus error  | White discoloration           |
| F <sup>-</sup>                | ≥500 mg/l     | Minus error  | No discoloration (≤1000 mg/l) |
| I <sup>-</sup>                | ≥50 mg/l      | Plus error   | White discoloration           |
| S <sup>2-</sup>               | ≥5 mg/l       | Plus error   | Blackish grey discoloration   |
| SO <sub>4</sub> <sup>2-</sup> | ≥2000mg/l     | Minus error  | White discoloration           |

#### Calibration gas generation Sodium Chloride standard solution

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