



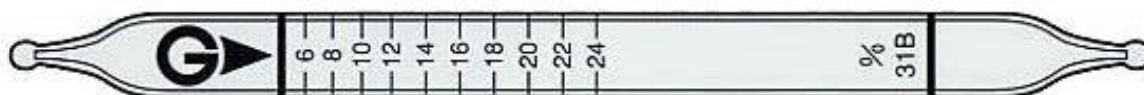
The people with the solutions that protect you and your environment everyday

## Gastec Tube Datasheet

Oxygen

O<sub>2</sub>

NO.GAS31B



### Performance

Measuring Range	3 to 6%	6 to 24%
Number of Pump Strokes	1	1/2
Correction Factor	1/2	1
Sampling Time	2 minutes per pump stroke	
Detecting Limit	2% (n=1)	
Colour Change	Black → White	
Reaction Principle	$O_2 + 4TiCl_3 + 6H_2O \rightarrow 4TiO_2 + 12HCl$	
Coefficient of Variation	5% (for 6 to 24 %)	
Shelf Life	Up to 3 Years	
Corrections for temperature & humidity	Unnecessary	
Store the tubes at cool and dark place.		

### Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Carbon Monoxide	-	No effect	No discoloration
Carbon Dioxide	≥40%	Plus error	No discoloration
Hydrogen Sulphide	-	No effect	No discoloration
Nitrogen Dioxide	-	No effect	No discoloration
Sulphur Dioxide	-	No effect	No discoloration

**Calibration gas generation** Dynamic gas dilution method

### Special Note

If more than 40% carbon dioxide is coexisted, the tube reading will be 1% higher than the true concentration. (at 21% oxygen concentration tube 31B indicates 22%)

**a1-cbiss Ltd**

5 Valiant Way, Lairdside Technology Park, Tranmere, CH41 9HS

[www.a1-cbiss.com](http://www.a1-cbiss.com) | [sales@a1-cbiss.com](mailto:sales@a1-cbiss.com) | Tel: +44(0)151 666 8300 | Fax: +44(0)151 666 8329

VAT No: 539 5178 13 Company Reg No: 2414633



Certificate No 996  
ISO 9001, ISO 14001  
OHSAS 18001