

GASTEC Instructions for No.4TSC Total Sulfur Content (TSC) Detector Tube

FOR SAFE OPERATION :

Carefully read this data sheet and the CO₂ Sulfur Analyzer Manual from Airborne Labs International (ALI), Inc. before using this product.

⚠ WARNING :

1. Use this detector tube only with passivated Total Sulfur Analyzers for CO₂ testing offered by ALI, Inc.
2. This detector tube cannot be used with any Gastec Gas Sampling Pumps (GV-100, No.801, and No.401).

⚠ CAUTION : If not observed, operator injuries or hardware damage may result.

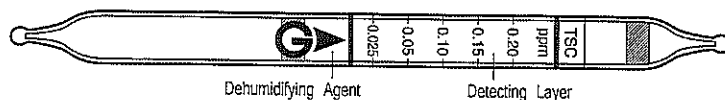
1. When breaking the tube ends, wear safety glasses and keep away from eyes.
2. Do not touch the broken glass tubes, pieces or reagent without using protective gloves.
3. Do not apply more than 138 KPag (20 psig, 1.4 barg) manifold gas pressure to this tube.

⚠ NOTES : For optimal performance and test result reliability.

1. Use the TSC Test Methods and CO₂ Sulfur Analyzer Models offered by ALI, Inc.
2. Use this tube within a temperature range of 20 - 30°C(68 - 86°F).
3. Shelf life*, expiration date, lot number and recommended refrigerator storage conditions** for this tube are marked on the box cover.

SPECIFICATION :

(As a result of Gastec's commitment to continued improvement, specifications are subject to change without notice.)



Measuring Range	0.025 - 0.2 ppm v/v @ 125 cc/min × 8.0 min = 1.0L CO ₂
Color Change for Total Sulfur Content (as H ₂ S)	Light Yellow → Wine Red Note: ALI Sulfur Analyzer also requires 20 - 22 cc/min of H ₂ Support Gas Flow
Analyte Reaction Principle	Sulfur Analyzer mixes a low H ₂ flow with sample CO ₂ gas then catalytically converts all volatile sulphur impurities into H ₂ S. The detector tube reagent then reacts with this H ₂ S to create a wine-colored stain.

* Shelf Life = 2 Yrs (Refrigerated): Please refer to the Expiration Date printed on the box cover.

** 4TSC TUBE SHOULD BE REFRIGERATOR STORED at 10°C (50°F) or below. DO NOT FREEZE.

MEASUREMENT PROCEDURE :

Follow TSC method instructions provided with CO₂ Sulfur Analyzer Models available from ALI, Inc.

DISPOSAL INSTRUCTIONS :

Reagent of the tube uses toxic mercuric chloride. When dispose of the tube regardless of whether used or unused, follow the rules and regulations of the local government. MSDS sheets are available from Gastec and Airborn Labs international, Inc.

If you have any questions regarding the safe and proper use of this tube or tube quality, please contact Gastec or Airborne Labs international, Inc***.

***Airborne Labs International, Inc. is a manufacturer of CO₂ Quality Analyzer Systems, which incorporate Gastec detector tubes as an integral part.

Airborne Labs International, Inc.
22C World's Fair Drive, Somerset, NJ 08873
<http://www.airbornelabs.com>
Telephone +1-732-302-1950 Facsimile +1-732-302-3035

Detector Tube Manufacturer :
Gastec Corporation
8-8-6 Fukayanaka, Ayase-City, 252-1195, Japan
<http://www.gastec.co.jp/>
Telephone +81-467-79-3910 Facsimile +81-467-79-3979

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