

128

GASTEC

STODDARD SOLVENT DETECTOR

The Gastec Detector Tube No. 128 provides a rapid, fully quantitative analysis of the concentration of STODDARD SOLVENT in air with an accuracy tolerance of ± 25 of TLV utilizing the Gastec Multi-Stroke Gas Sampling Pump.

PERFORMANCE :

Calibration Scale	50—8,000 mg/m ³ (based on 1 pump stroke)
Measuring Range	50—8,000 mg/m ³
Number of Pump Strokes	1 pump stroke only
Detecting Limit	5 mg/m ³
Sampling Time	90 seconds per pump stroke
Color Change	White—Brown Ring

SHELF LIFE :

Please refer to the term of validity on a Tube Box Label.

MEASUREMENT PROCEDURE :

1. Break tips off a fresh detector tube by bending each tube end in the tube tip breaker of the pump.
2. Insert the tube securely into the rubber inlet of the pump with the arrow on the tube pointing toward the pump.
3. Make certain the pump handle is all the way in. Align the red marks on handle and pump body.
4. Pull the handle all the way out until it locks on 1 pump stroke (100 ml). Wait until stained ring stops on the tube. During sampling the air, brown stain of stoddard solvent goes up in the tube.
5. Read concentration at the interface of the highest point of the stained ring.

CORRECTION FOR TEMPERATURE, HUMIDITY AND PRESSURE :

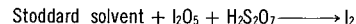
Calibration of the Gastec detector tube No. 128 is based on a tube temperature of 20°C (68°F) and not the temperature of the gas being sampled, approximately 50% relative humidity and normal atmospheric pressure. No correction is needed for tube temperature of 0—40°C (32°—104°F) and for relative humidity range of 0—90%. To correct for pressure, multiply tube reading by

$$\frac{760}{\text{Atmospheric Pressure (mmHg)}}$$

CALIBRATION AND ACCURACY :

The Gastec detector tube No. 128 is carefully calibrated as an integral part of the manufacturing process. Calibration and accuracy test are performed using combinations of dynamic diffusion tube method and gas chromatographic technique.

DETECTION PRINCIPLE :



INTERFERENCES :

If aromatic hydrocarbons are coexisted, they discolor the analyzing tube inlet by dark brown.

More than 0.1% of Carbon Monoxide, more than 0.2% of Acetylene, Ethylene and Hexane discolor the whole layer by slight brown.

Esters, Alcohols and Ketones do not interfere by themselves.

DANGEROUS AND HAZARDOUS PROPERTIES :

Threshold Limit Value-Time Weighted Average by ACGIH (1997): 100 ppm or 525 mg/m³ (7—8 hours)

SEE OPERATING INSTRUCTIONS INCLUDED WITH THE GASTEC MULTI-STROKE GAS SAMPLING PUMP.

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