

APPARATUS FOR HYDROGEN SULFIDE IN FUEL OILS



Apparatus for Hydrogen Sulfide in Fuel Oils TT-7621

Apparatus for Hydrogen Sulfide in Fuel Oils TT-7621 adheres to the ASTM D7621 Standard Test Method for Determination of Hydrogen Sulfide in Fuel Oils by Rapid Liquid Phase Extraction.

The process involves introducing a weighed test specimen into a heated test vessel containing a diluent base oil. Air is then bubbled through the oil to extract the H₂S gas. In Procedure A, the air with the extracted H₂S is directed through a vapor phase processor to an H₂S-specific electrochemical detector for measuring the H₂S content in the air and calculating the amount in the liquid phase in mg/kg. Procedure B does not require a filter cartridge.

APPLICATIONS

The primary application of this apparatus is to determine the amount of hydrogen sulfide (H₂S) in fuel oils, in compliance with the ASTM D7621, IP570, and ISO 8217 standards.

It is specifically used to measure H₂S concentrations from 0 to 250 mg/kg in fuel oils with a viscosity of up to 3000 mm²/s. The test is performed using a rapid liquid phase extraction method.

FEATURES

- The airflow rate is measured and controlled using a digital mass flow meter.
- The tester is designed and manufactured in full compliance with the requirements of ASTM 7621, IP570, and ISO 8217 testing standards.
- It features microcomputer control, automatic measurement, and automatic calculation of results.
- Utilizes a semiconductor refrigeration gas phase processor with fast cooling speed.

- Equipped with a Fisher-type glass reaction tube, ensuring ease of operation.
- Includes a Luer-type sintered filter filled with a special adsorbent.
- Utilizes the H2S200 detection system, capable of direct reading.
- Features a quick screwing cap for sealing.

TECHNICAL SPECIFICATIONS

1. Measuring range: 0 to 250 mg/kg H₂S
2. Ambient requirements: 15 to 30°C, relative humidity (RH) 80%
3. Viscosity range: Up to 3000 mm²/s
4. Detection mode: Electrochemical sensor
5. Test time: 15 minutes
6. Sample Volume: 1 ml, 2 ml, 5 ml (depends on the H₂S concentration)
7. Dilute volume: 20 ml
8. Rated voltage: AC220V±10V, 50Hz (110V also available)
9. Total power: 300W
10. Dimension: 420*500*340 mm
11. Net weight: 20 kg



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