

SALT CONTENT OF CRUDE OIL TESTER



Salt Content of Crude Oil Tester TT-3230

Salt Content of Crude Oil Tester TT-3230 complies with the standard ASTM D3230 Standard Test Method for Salts in Crude Oil (Electrometric Method) and is designed for determining the approximate chloride (salts) concentration in crude oil.

Salt Content of Crude Oil Tester TT-3230 covers a concentration range from 0 to 500 mg/kg or 0 to 150 lb/1000 bbl as chloride concentration per volume of crude oil. This device is capable of measuring the salt content to detect the total halide value, ranging from 0.002% to 0.02% (by weight) in crude oil, reduced oil, cracking oil residue, and fuel oil. Additionally, it is suitable for assessing the seawater pollution status of used steam turbine oil and bunker fuel oil.

APPLICATIONS

The primary application of the Salt Content of Crude Oil Tester TT-3230 is to determine the concentration of salts (chlorides) in crude oil and other petroleum products, in compliance with the **ASTM D3230** standard. This is a critical quality control test, as high salt content can lead to severe corrosion in pipelines, storage tanks, and refinery processing units. The test is also used to assess seawater contamination in fuels like bunker oil and used steam turbine oil.

Key Industries

- **Petroleum Refining:** This is the most critical industry for this test. Refineries must measure the salt content of incoming crude oil to prevent catastrophic corrosion damage to their distillation units and other equipment. The test is also used to verify the efficiency of the crude oil desalting process.
- **Oil and Gas Production (Upstream):** Producers test crude oil for salt content at the production site. The measurement is crucial for quality assessment, as high salt levels can devalue the crude and cause corrosion in pipelines and initial processing equipment.
- **Marine and Bunkering:** This is a key application mentioned in the text. The marine industry uses this test to check bunker fuel oils for salt contamination, which often comes from seawater. Salt in fuel can cause severe high-

temperature corrosion in marine engines and boilers, leading to costly damage.

FEATURES

- The control cabinet is separate from the main part of the tester, connected with wires for a reasonable design and convenient usage.
- The main device of the extraction instrument includes a 500ml flask (equipped with heating wire and plug), a condenser, and a cylindrical dropping funnel.

TECHNICAL SPECIFICATIONS

1. Extraction instrument: ASTM D3230
2. Extraction instrument heating power: 300W
3. Voltage regulator power: 600W
4. Rated voltage: AC (220 $\pm$ 10)V, 50Hz (110V also available)
5. Size: 540mm $\times$ 220mm $\times$ 760mm (L $\times$ W $\times$ H, main engine)



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