



APPARATUS FOR PARAFFIN, RESINS AND ASPHALTENES CONTENTS IN CRUDE OIL

Apparatus for Paraffin, Resins and Asphaltenes Contents in Crude Oil TT-6560

Apparatus for Paraffin, Resins and Asphaltenes Contents in Crude Oil TT-6560 adheres to ASTM D6560 Standard Test Method for Determination of Asphaltenes (Heptane Insolubles) in Crude Petroleum and Petroleum Products.

Asphaltenes, characterized by their high molecular mass and carbon-hydrogen ratio, are organic molecules commonly found in crude petroleum and petroleum products with residual material. Their presence can lead to issues during storage and handling if the suspension of asphaltene molecules is disrupted due to excess stress or incompatibility.

APPLICATIONS

The primary application of this apparatus is to determine the content of **asphaltenes (heptane insolubles), paraffins, and resins** in crude petroleum and other petroleum products, in compliance with standards like **ASTM D6560**. This analysis is critical for assessing the stability of the oil. Asphaltenes are known to precipitate out of solution, and this test helps predict and prevent potential operational issues such as sludge formation and blockages during storage, transportation, and refining.

Key Industries

- **Oil and Gas Production (Upstream):** This is a crucial test for "flow assurance." The asphaltene content of crude oil is measured at the production stage to predict the risk of blockages in wells, pipelines, and separation facilities, which can halt production and be extremely costly to remediate.
- **Petroleum Refining (Downstream):** Refineries must manage the asphaltene content of the crude oil they process. Asphaltenes can cause severe fouling in heat exchangers and distillation units, poison catalysts, and affect the stability and compatibility of blended products like heavy fuel oil.

- **Pipeline and Transportation (Midstream):** This industry relies on this test to ensure the stability of crude oil during transport and storage. Blending different types of crude oil in pipelines or tanks can cause asphaltenes to become unstable and precipitate, leading to significant sludge buildup and operational problems.

FEATURES

The apparatus comprises two distinct devices: a suction device and a dewaxing and filtering device, alongside a compressor refrigeration system, etc., arranged side by side in a compact structure. It features a digital temperature control table for automatic temperature regulation, specifically designed in accordance with the ASTM D6560 standard. Notably, the sand core funnel is unique, offering the advantage of reduced operating time and ease of operation.

TECHNICAL SPECIFICATIONS

No.	Parameter	Specification
1	Rated Voltage	AC220V±10%, 50Hz (110V also available)
2	Water Bath Heating Power	2.0kW
3	Water Bath Temperature Range	Ambient to 90℃ (freely adjustable)
4	Working Stations	Two stations with four holes each
5	Cooling Bath Temperature Range	-30℃ to Ambient (freely adjustable)
6	Cooling System	Compressor
7	Temperature Accuracy	≤±0.5℃
8	Temperature Display	LED digital display



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