

TOTAL SEDIMENT IN RESIDUAL FUELS



Total Sediment in Residual Fuels TT-4870

Total Sediment in Residual Fuels TT-4870 complies with the ASTM D4870 Standard Test Method for Determination of Total Sediment in Residual Fuels.

Total Sediment in Residual Fuels TT-4870 is utilized to assess the total sediment content, up to 0.40% m/m for distillate fuel oils containing residual components, and up to 0.50% m/m in residual fuel oils with a maximum viscosity of 55 cSt (mm²/s) at 100°C.

APPLICATIONS

The primary application of the Total Sediment in Residual Fuels TT-4870 apparatus is to determine the total sediment in residual fuel oils, in compliance with the **ASTM D4870** standard. This test is crucial for assessing the cleanliness and stability of residual fuels. It measures both the existing sediment and the potential sediment that can form when the fuel is thermally or chemically stressed, providing a critical indicator of the fuel's tendency to form sludge and foul equipment during storage and use.

Key Industries

- **Marine and Bunkering:** This is a vital test for the shipping industry. High total sediment can lead to severe operational issues on vessels, including the clogging of filters, damage to fuel pumps and injectors, and ultimately, engine failure. This test helps ensure the stability and quality of bunker fuels.
- **Petroleum Refining:** Refineries use this test for quality control of their residual fuel oil production. The results help them ensure that their products are stable and will not cause problems for end-users, which is essential for meeting commercial specifications.

- **Power Generation:** Power plants that use residual fuel oil for electricity generation rely on this test to prevent operational problems. Sediment can foul fuel lines, burners, and storage tanks, leading to reduced efficiency, increased maintenance costs, and potential plant downtime.

FEATURES

- Meets both Thermal Ageing and Chemical Aging procedures.
- Features an LCD display and button operation for user convenience.
- Capable of conducting two tests simultaneously or in parallel, ensuring ease of operation.
- Equipped with an LCD timing system, allowing timing up to 99 hours, 99 minutes, and 99 seconds.
- Vacuum degree can reach 40Kpa $\pm$ 2Kpa, with pressure gauge display and valve control.
- The Chemical ageing method utilizes a metal bath, ensuring safety and environmental friendliness, with two test stations available.
- The apparatus incorporates a metal bath instead of a steam generator, ensuring safety, ease of operation, and environmental sustainability.

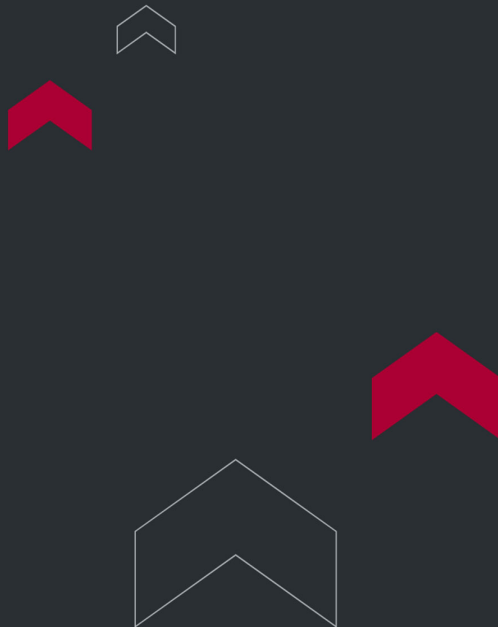
TECHNICAL SPECIFICATIONS

1. Applicable standard: ASTM D4870
2. Ambient temperature range: 0 to 45°C
3. Humidity: $\leq 80\%$
4. Display method: LCD
5. Temperature range: Ambient to 100°C $\pm$ 0.5°C

6. Vacuum pressure: Precise pressure gauge

7. Test stations: Double

8. Power: 2000W



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