



SMOKE POINT APPARATUS FOR KEROSENE

Smoke Point Apparatus for Kerosene TT-1322

Smoke Point Apparatus for Kerosene TT-1322 complies with the ASTM D1322 Standard Test Method for Smoke Point of Kerosene.

Smoke Point Apparatus for Kerosene TT-1322 offers insight into the relative smoke-producing properties of kerosene in a diffusion flame. The smoke point is linked to the hydrocarbon composition of these fuels, with generally more aromatic fuels producing smokier flames. A high smoke point indicates a fuel with a lower tendency to produce smoke.

APPLICATIONS

The primary application of the Smoke Point Apparatus for Kerosene TT-1322 is to determine the smoke-producing characteristics of kerosene and aviation turbine fuels, in compliance with the ASTM D1322 standard. The test measures the maximum flame height at which a fuel will burn without producing smoke. A higher smoke point is desirable as it indicates a cleaner-burning fuel with a lower tendency to form soot, which is directly related to the aromatic content of the fuel.

Key Industries

- **Petroleum Refining:** Refineries use this instrument for essential quality control to ensure that kerosene and jet fuel fractions meet product specifications for combustion quality before they are released to the market.
- **Aerospace and Aviation:** This is a critical test for jet fuel (a highly refined kerosene) quality. A low smoke point can indicate poor combustion performance, which can lead to carbon deposits in jet engines and increased visibility of exhaust, making it a key safety and performance parameter.
- **Third-Party Testing Laboratories:** These labs provide independent quality verification and certification services for fuel producers, distributors, and large consumers like airlines and military organizations.

FEATURES

- The instrument comprises a bottom case, oil conservator stand, oil conservator, terrace, wick pipeline, ruler, and smoke flue.
- The oil conservator consists of a wick tube and an air tube. The wick tube is securely fastened within the oil conservator, which is then installed in the smoke point lamp.
- The stroke adjustment range of the oil conservator lifting device is 0 to 10mm, providing convenient and flexible operation.
- The bottom case consists of a wick pipeline and a ruler. The ruler has a measuring range of 0 to 50mm, facilitating easy observation.
- Designed with safety, reliability, and an appealing appearance.

TECHNICAL SPECIFICATIONS

1. Testing Range: 0 to 50mm
2. Oil Reservoir: 25ml
3. Oil Reservoir Rising and Falling Device: 0 to 10mm
4. Ambient Requirements: Temperature: 20°C to 30°C; Humidity $\leq 80\%$



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