Conradson Carbon Residue Tester

This tester determines the amount of carbon residue of petroleum products after evaporation and pyrolysis. It is designed to check the coke forming property of petroleum products.

Product Overview

Conradson Carbon Residue Analysis

The Conradson Carbon Residue Tester is a specialized laboratory instrument designed to determine the amount of carbon residue remaining after the evaporation and pyrolysis of petroleum products. This apparatus facilitates precise testing for a wide range of materials, including lubricating oils, distillate fuels, and crude oils. By utilizing a controlled heating process with nested crucibles, it provides essential data for assessing the thermal stability and coking tendencies of oil-bearing products.

Technical Specifications

Crucible Capacities

Crucible Type	Capacity
Porcelain Crucible	~30 ml
Inner Iron Crucible	75 ± 5 ml
Outer Iron Crucible	190 ± 10 ml

Tripod Dimensions

250 mm
Height

130 mm
Ring Diameter

Tripod Material	Iron with nickel and chromium plated finish

Component Details

Round Iron Shield Specs

- Plate thickness: 8 mm
- Lower part height: 50–53 mm
- Middle cone height: 25 ± 2 mm
- Fire bridge height: 50 ± 3 mm

Flame Shield Construction

- Material: 0.6–0.8 mm iron plate
- Upper opening diameter: 90 ± 2 mm
- Lower opening diameter: 82 ± 2 mm
- Includes asbestos pressure ring

Burner Type	Meker type gas burner

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Application	
Applicable Materials	Lubricating Oils, Distillate Fuels, Crude Oils, Oil-bearing materials