

# Ramsbottom Carbon Residue of Petroleum Products

## test method

Determines the 'carbon residue' left after evaporation and pyrolysis of a sample oil in the Ramsbottom furnace, providing an indication of the deposit forming tendencies of fuels and guidelines for the processing of refinery products.

## Ramsbottom carbon residue apparatus

- Conforms to ASTM D524 and related specifications
- Microprocessor temperature control with digital display and overtemperature cut-off

Thermostatically controlled coking furnace for five samples. Cast-iron block type furnace reaches the standard test temperature of 550°C (1022°F) rapidly and controls with  $\pm 1^\circ\text{C}$  stability. Microprocessor temperature control has  $^\circ\text{C}/^\circ\text{F}$  switchable digital setpoint and display. Operator and equipment are protected by an overtemperature control circuit which automatically interrupts power to the unit should block temperature exceed the programmed cut-off point. Communications software (RS232, etc.), ramp-to-set and other enhanced features are available as extra cost options. Contact your Koehler representative for information. Heavily insulated stainless steel cabinet with three-layer refractory top provides excellent heat retention.



K29100 Ramsbottom  
Carbon Residue Apparatus

## ordering information

catalog no.	description	qty
K29100	Ramsbottom Carbon Residue Apparatus, 115V 60Hz	1
K29190	Ramsbottom Carbon Residue Apparatus, 220-240V 50/60Hz	
<b>accessories</b>		
332-007-001	Coking Bulb Borosilicate Glass, with capillary Conforms to ASTM D524 specifications	5
362-010-001	Sample Charging Syringe	1
382-018-001	Needle, 18 gauge, 2"	1
K27320	Coking Bulb Filling Device Convenient time saving device fills up to five coking bulbs at a time. Ideal for viscous fluids that are difficult to handle at room temperature.	1
K27200	Control Bulb Stainless steel, with IC thermocouple. May be used with a thermocouple pyrometer* to verify compliance of the furnace with ASTM performance requirements.	1
K29350	Digital Thermometer, 115V/230V	

\*The K29310 Digital Thermometer is suitable for this purpose.

## specifications

Conforms to the specifications of:  
ASTM D524, D6074; IP 14; ISO 4262; FTM 791-5002;  
NF T 60-117

Furnace Type: Cast iron block  
Capacity: 5 coking bulbs  
Maximum Temperature: 650°C (1200°F)  
Controller Sensitivity:  $\pm 1^\circ\text{C}$  ( $\pm 2^\circ\text{F}$ )  
Heater: 0-2400W, ceramic band heater  
Electrical Requirements:  
115V 60Hz, Single Phase, 10A  
220-240V 50/60Hz, Single Phase, 5A

**Dimensions** wxdxh,in.(cm)  
14.9x12.2x15.1 (38x31x39)  
Net Weight: 44 lbs (20 kg)

*Software compatible, inquire with Koehler Customer Service.*