

Sulfur, Trace Sulfur, Volatile Chlorides

Sulfur in Liquefied Petroleum Gases
(Oxy-Hydrogen Burner)

Traces of Volatile Chlorides in
Butane-Butene Mixtures

Trace Quantities of Total Sulfur
(Wickbold Apparatus)

Sulfur in Petroleum Products
(Wickbold Apparatus)

test method

Determines total sulfur in liquefied petroleum (LP) gases and in liquid petroleum products by the Wickbold oxy-hydrogen burner method. Also suitable for burning butane-butene mixtures to determine trace amounts of volatile chlorides.

wickbold combustion apparatus

- Conforms to ASTM D2384, D2784 and related specifications

Burns samples in a stainless steel oxy-hydrogen burner to determine total sulfur in petroleum products in the 0.1 to 300ppm range. Tests samples which are viscous, highly aromatic or of high sulfur content with the use of appropriate solvents. Combustion chamber and stainless steel burner are housed in an insulated chamber with hinged heat-resistant and glare-proof shield for viewing burner flame. To ignite flame, depress electronic spark ignitor handle at side of unit. Ignitor shuts off when handle is released. Built-in pressure regulators with gauges allow for accurate adjustment and monitoring of hydrogen, oxygen and nitrogen pressure. Burner is easily disassembled for cleaning. Supplied with a complete set of Borosilicate Glass and quartz glassware, including 200mL sample reservoir, sample capillary, combustion chamber, absorber, spray trap and cooling bulb, and compression-type gas connection fittings for 1/4" (6mm) O.D. tubing. Housed in a finished aluminum cabinet. For LPG, natural gas and refinery gas samples, order accessory sample adapter.

ordering information

catalog no.	description	qty
K47500	Wickbold Apparatus, 115V 60Hz	1
K47590	Wickbold Apparatus, 220-240V 50/60Hz	
accessories		
K47580	Gas Sample Adapter For burning liquefied petroleum, natural and refinery gases in the Wickbold Apparatus. Constructed entirely of stainless steel, with 150mL sample cylinder, connecting tubing and all necessary valves and couplings	1
K47510	Sample Capillary	
K47520	Sample Reservoir	
K47530	Combustion Chamber	
K47540	Absorber	
K47550	Spray Trap	
K47560	Cooling Bulb	
K47570	Stainless Steel Burner	



K47590 Wickbold
Combustion Apparatus

specifications

Conforms to the specifications of: ASTM D2384, D2747 (Withdrawn 1985), D2784, D2785 (Withdrawn 1987); GPA 2140; IP 243; ISO 4260; DIN EN 41; NF T 60-142

Electrical Requirements

115V 60Hz
220-240V 50/60Hz

Included Accessories

Complete Glassware Set
Sample Capillary
Sample Reservoir
Combustion Chamber
Absorber
Spray Trap
Cooling Bulb
Stainless Steel Burner

Dimensions l x w x h, in. (cm)

Cabinet only: 15x13x18 1/2 (38x33x47)
Net Weight: 40 lbs (18.1kg)

Shipping Information

Shipping Weight: 62 lbs (28.1kg)
Dimensions: 11.9 Cu. ft.



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