

COPPER STRIP CORROSION BY LIQUEFIED PETROLEUM (LP) GASES

Test Method

Tests the corrosiveness of LPG to copper by immersion of a polished test strip in the sample inside a test cylinder at elevated temperature. After one hour the test strip is removed and compared against the ASTM Copper Strip Corrosion Standards.

LPG Copper Strip Corrosion Test Apparatus

- Conforms to ASTM D1838 and related specifications
- Four-sample testing capability

Consists of LPG Corrosion Test Cylinders, Water Bath, Copper Strips, Polishing Materials and the ASTM Copper Strip Corrosion Test Standards.

LPG Corrosion Test Cylinders—Stainless steel cylinder with ¼" needle valves for purging and admitting LPG samples. Dip tube with hook suspends copper strip in sample. Knurled, threaded cap with O-ring gasket hand tightens to a positive seal. Withstands hydrostatic test pressure of 1000 psig (6895kPa).

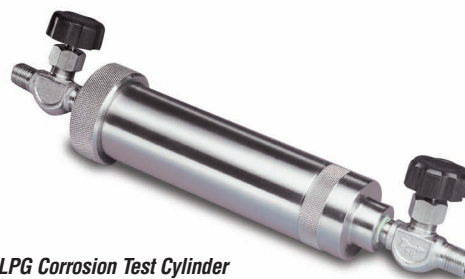
LPG Corrosion Test Water Bath—Thermostatically controlled water bath submerges four LPG Corrosion Test Cylinders in an upright position. Controls temperature at 100 ±1°F (37.8 ±0.5°C) per ASTM specifications. Soxhlet reflux condenser and constant water level device maintain proper working depth. Polished stainless steel inner wall and powder coated steel outer wall construction. Fully insulated.

Ordering Information

Catalog No.		Order Qty
K40000	LPG Corrosion Test Cylinder	4
K39900	LPG Corrosion Test Water Bath, 115V 60Hz	1
K39990	LPG Corrosion Test Water Bath, 220-240V 50/60Hz	
Accessories		
K40200	Copper Strip for LPG 12.5x1.5-3.0x75mm with 3.2mm hole per ASTM specifications	4
K40100	Connecting Tubing Sulfur-free plastic-lined tubing for connection of test cylinder valve to sample source. With ¼" stainless steel and aluminum connectors. 24" long	1
K25100	ASTM Copper Strip Corrosion Test Standards Colored reproductions of tarnished strips encased in a plastic plaque.	1
380-240-001	Silicone Carbide Paper, 240-grit For polishing copper strips prior to testing. Pack of 50 sheets	1
380-150-000	Silicone Carbide Grain, 150-grit For final polishing of copper strips prior to testing. 1 lb package	1
380-150-001	Silicone Carbide Paper, 150-grit For polishing copper strips prior to testing. Pack of 50 sheets	1
K25000	Polishing Vise Holds copper strip firmly in place without marring the edges. Stainless steel, mounted on a composition base	1
K25090	Multi-Strip Polishing Vise Similar to K25000 but capable of holding four strips at a time	
250-000-12F	ASTM 12F Thermometer. Range: -5 to +215°F	1
250-000-12C	ASTM 12C Thermometer. Range: -20 to +102°C	



K39900 LPG Corrosion Test Bath



K40000 LPG Corrosion Test Cylinder

Specifications

Conforms to the specifications of:

ASTM D1838; GPA 2140; ISO 6251

Water Bath Specifications:

Capacity: four (4) LPG Corrosion Test Cylinders

Maximum Temperature: 221°F (105°C)

Temperature Control Stability: ±1°F (±0.5°C)

Heater Range: 0-750W

Bath Medium: 3.8 gal (14.4L) Water

Electrical Requirements: **CE**

115V 60Hz, Single Phase, 6.5A

220-240V 50/60Hz, Single Phase, 3.4A

Shipping Information

Shipping Weight: 27 lbs (12.2kg)

Dimensions: 5.3 Cu. ft.

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

12x10x24 (30x25x61)

Net Weight: 19 lbs (8.6kg)

For NIST traceable certified thermometers, please refer to the ASTM Thermometer section on pages 184 through 191.

