

## Copper Strip Corrosion by Liquefied Petroleum (LP) Gases



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 1/4" 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  $100 \pm 1^{\circ}\text{F}$  ( $37.8 \pm 0.5^{\circ}\text{C}$ ) 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.

<b>K40000</b>	LPG Corrosion Test Cylinder
<b>K39901</b>	Digital LPG Corrosion Test Bath., 115V 50/60Hz
<b>K39991</b>	Digital LPG Corrosion Test Bath, 220-240V 50/60 Hz
<b>Accessories</b>	
<b>K40200</b>	Copper Strip for LPG <i>12.5x1.5-3.0x75mm w/ 3.2mm hole</i>
<b>K40100</b>	Connecting Tubing <i>Sulfur-free plastic-lines for connection of test cylinder valve to sample source. With 1/4" stainless steel and aluminum connectors. 24" long</i>
<b>K25100</b>	ASTM Copper Strip Corrosion Test Standards
<b>380-240-001</b>	Silicone Carbide Paper, 240-grit (50/pk)
<b>380-150-000</b>	Silicone Carbide Grain, 150-grit (1lb pk)
<b>380-150-001</b>	Silicone Carbide Paper, 150-grit (50/pk)
<b>K25000</b>	Polishing Vice
<b>K25090</b>	Multi-Strip Polishing Vice
<b>250-000-12F</b>	ASTM 12F Thermometer
<b>250-000-12C</b>	ASTM 12C Thermometer

### Specifications

Conforms to the specifications of:

ASTM D1838; GPA 2140; ISO 6251

Water Bath Specifications:

Capacity: four (4) LPG Corrosion Test Cylinders

Maximum Temperature:  $221^{\circ}\text{F}$  ( $105^{\circ}\text{C}$ )

Temperature Control Stability:  $\pm 1^{\circ}\text{F}$  ( $\pm 0.5^{\circ}\text{C}$ )

Heater Range: 0-750W

Bath Medium: 3.8 gal (14.4L) Water

Electrical Requirements:

115V 50/60Hz, Single Phase, 6.5A

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

**Dimensions** lwxh, in, (cm)

12x10x24 (30x25x61)

Net Weight: 19 lbs (8.6kg)

