

# OIL SEPARATION FROM LUBRICATING GREASE DURING STORAGE

## Test Method

Determines the tendency of lubricating grease to separate oil during storage in a 35 lb pail. The sample is placed on a sieve inside a special test cell and subjected to 0.25psi (1.72kPa) air pressure at constant temperature. Any oil that bleeds from the grease during a 24 hour period is collected in the cell and weighed.

## Oil Separation Apparatus

- Conforms to ASTM D1742 and related specifications
- Four sample capability
- Controls temperature and air pressure

Consists of pressure bleeding test cells with air pressure regulation system and constant temperature air cabinet.

**Pressure Bleeding Test Cell**—Type A test cell includes cup assembly with funnel and positioning seat for beaker; cover with air inlet fitting; and 200-mesh stainless steel sieve strainer with brass support ring. Bayonet type connection and o-ring seal provide tight closure between cover and base. Cup, funnel and base are constructed of chrome plated spun copper. Order test beaker separately.

**Constant Temperature Air Cabinet**—Provides a constant temperature environment and regulated air pressure per ASTM specifications. Consists of an insulated airtight cabinet with pressure system to accommodate four pressure bleeding test cells. Equipped with electric heater, solid state controller, cooling coil and circulating fan for efficient temperature control at 77°F (25°C). Pressure system includes air inlet pressure regulator with gauge, cartesian manostat, manifold with control valves for four test cells, output gauge, manostat and gas washing bottle. Built-in pressure relief valve protects against pressure surge. Cabinet is constructed of double-wall stainless steel with full insulation. Order thermometer and pressure bleeding test cell separately.

## Specifications

Conforms to the specifications of:

ASTM D1742, FTM 791-322

Capacity: four samples

Controller Sensitivity  $\pm 1^\circ\text{F}$  ( $\pm 0.5^\circ\text{C}$ )

Electrical Requirements: **CE**

115V 60Hz, Single Phase, 3A

220-240V 50/60Hz, Single Phase, 1.5A

## Dimensions

Interior: 19"x19"x21½" (50x50x55)

Overall: 47"x23"x31½" (119x60x79)

\*includes external pressure system components

Net Weight: 121 lbs (54.9kg)

## Shipping Information

Shipping Weight: 224 lbs (101.6kg)

Dimensions: 27.8 Cu. ft.



K18910  
Constant Temperature  
Air Cabinet with K18900 Cell

## Ordering Information

Catalog No.	Description	Order Qty
K18910	Constant Temperature Air Cabinet, 115V 60Hz	1
K18919	Constant Temperature Air Cabinet, 220-240V 50/60Hz	1
K18900	Pressure Bleeding Test Cell	4

## Accessories

332-002-009	Test Beaker, 20mL	4
250-000-57F	ASTM 57F Thermometer. Range: $-4$ to $+122^\circ\text{F}$	1
250-000-57C	ASTM 57C Thermometer. Range: $-20$ to $+50^\circ\text{C}$	1

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



K18900 Pressure Bleeding Test Cell