

# Grease Mobility

## test method

Determines the resistance of lubricating grease to flow under prescribed conditions. Mobility is measured in grams per second by pumping the sample through a standardized SOD pressure viscometer at controlled temperature and pressure.

## grease mobility tester

- U.S. Steel Method; ASTM Draft Method
- Test temperatures as low as  $-30^{\circ}\text{F}$  ( $-34.4^{\circ}\text{C}$ )

Performs grease mobility tests at low temperatures to predict pumpability characteristics. Determines the suitability of greases for applications in centralized or bulk systems where pumps, valves or pipes are used to distribute or transfer grease. Consists of pressure viscometer, cooling bath and refrigeration system. The stainless steel pressure viscometer is fitted with a modified No.1, 40:1 ratio capillary. After the sample is loaded in the pressure viscometer, the assembly is installed in the cooling bath and allowed to reach the test temperature. Mechanically refrigerated cooling bath can attain test temperatures as low as  $-30^{\circ}\text{F}$  ( $-34.4^{\circ}\text{C}$ ) with stability of  $\pm 2^{\circ}\text{F}$  ( $\pm 1^{\circ}\text{C}$ ). With the sample at the test temperature, the flow of grease is started under the selected pressure on a nitrogen tank regulator. Flow per second is determined by collecting the grease for a specified period. Includes sample collector turntable.

## specifications

Conforms to the specifications of:  
U.S. Steel Method; ASTM Draft Method  
Minimum Temperature:  $-30^{\circ}\text{F}$  ( $-34.4^{\circ}\text{C}$ )  
Control Stability:  $\pm 2^{\circ}\text{F}$  ( $\pm 1^{\circ}\text{C}$ )

### Included Accessories

Grease Cylinder (pressure viscometer)  
with modified No.1, 40:1 capillary  
Sample Collector Turntable

### Electrical Requirements

115V 60Hz, Single Phase, 6A  
220-240V 50 or 60Hz, Single Phase, 3A

### Dimensions lwxhx, in.(cm)

Cooling Chamber: 12x12x30 (30.5x30.5x76)  
Refrigeration Unit: 15x12x12 (38x30x30)  
Net Weight: 114 lbs (51.7kg)

### Shipping Information

Shipping Weight: 188 lbs (85.3kg)  
Dimensions: 18.4 Cu. ft.



K22680 Grease Mobility Tester

## ordering information

catalog no.	description
K22680	Grease Mobility Apparatus, 115V 60Hz
K22685	Grease Mobility Apparatus, 220-240V 50Hz
K22686	Grease Mobility Apparatus, 220-240V 60Hz

### accessories

K22680-0-22	Grease Cylinder with plunger and fittings
K22680-0-16	Capillary
250-100-001	Thermometer dial type Range: $-100$ to $+100^{\circ}\text{F}$ with $2^{\circ}\text{F}$ subdivisions