Cloud Point and Pour Point of Petroleum Products

test method

Cloud point and pour point are indicators of the lowest temperature of utility for petroleum products. The sample is periodically examined while it is being cooled in the cloud and pour point apparatus. The highest temperature at which haziness is observed (cloud point), or the lowest temperature at which movement of the oil is observed (pour point), is reported as the test result.

cloud and pour point test equipment

- Conforms to ASTM D97, D2500 and related specifications
- Compact four-place portable chamber
- Mechanically refrigerated models with factory preset cold baths

Cloud and Pour Point Chamber–Immerses four copper test jackets in suitable freezing mixtures at the required depth per ASTM specifications. Available with inlet and outlet connections for circulating refrigerated coolant from an external source. Consists of steel exterior housing with polyurethane enamel finish and all copper interior for corrosion resistance. Removable composition top plate and 1⁄2" (13mm) cork insulation around interior aid in cold retention. Supplied with copper jackets, gaskets, disks, and thermometer holders for test jars and cooling bath. Order test jars and thermometers separately.

Mechanically Refrigerated Baths–Bench-model and floor-model test units with multiple four-jacket mechanically refrigerated baths, each factory preset at a different temperature for convenient cloud and pour point testing. Bench model has three baths, set at +32, 0 and -27°F (0, -18 and -33°C); floor model available with either four or five baths, set at +32, 0, -27 and -60°F (0, -18, -33 and -51°C) and +32, 0, -27, -60 and -92°F (0, -18, -33, -51, and -69°C) respectively. Each bath has a phenolic top plate with ports for thermometer and four copper test jackets. Synthetic sponge covers over each top plate and gasketed hoods over each bath prevent excessive ice accumulation around the test jackets. Cascade hermetic refrigeration system provides reliable long term service. Bath interior is made of stainless steel, cabinet is constructed of polyester-epoxy finished steel housing. Floor model rides on swivel castors. Supplied with test jackets, gaskets, disks, and thermometer holders for test jars and cooling baths.

ordering information

catalog no.	description
Cloud and Pour Point Chamber	
K46000	Cloud and Pour Point Chamber
K46001	Cloud and Pour Point Chamber, with inlet/outlet fittings
Refrigerated Models:	
K46100	Cloud and Pour Point Bath, Bench Model, 115V 60Hz
K46195	Cloud and Pour Point Bath, Bench Model, 220-240V 50Hz
K46196	Cloud and Pour Point Bath, Bench Model, 220-240V 60Hz
K46300	Cloud and Pour Point Bath, Floor Model, 115V 60Hz
K46395	Cloud and Pour Point Bath, Floor Model, 220-240V 50Hz
K46396	Cloud and Pour Point Bath, Floor Model, 220-240V 60Hz
K46500	Cloud and Pour Point Bath, Floor Model, 5-Bath, 115V 60Hz
K46595	Cloud and Pour Point Bath, Floor Model, 5-Bath, 220-240V 50Hz
K46596	Cloud and Pour Point Bath, Floor Model, 5-Bath, 220-240V 60Hz



K46100 Refrigerated Bench Model

specifications

Conforms to the specifications of:
ASTM D97, D2500, D5853, D6074, D6158; IP 15, 219;
ISO 3015, 3016; DIN 51597; FTM 791-201; NF T 60-105

Electrical Requirements
Model K46100 Refrigerated Bench Model:
115V 60Hz, Single Phase, 12.2A
220-240V 50/60Hz, Single Phase, 6.9A
Model K46300/K46500 Refrigerated Floor Model:
115V 60Hz, Single Phase, 17.7A
220-240V 50/60Hz, Single Phase, 9.7A

Dimensions lxwxh,in.(cm)
K46000: dia.xh,in.(cm)
10.5x12 (27x30)
K46100:
30x28x35 (76x71x89)
K46300/K46500:
44x38x4 (112x97x115)
Net Weight:
K46000: 14 lbs (6.3 kg)
K46100: 340 lbs (155 kg)
K46300/K46500: 392 lbs (178 kg)

Shipping Information
Shipping Weight:
K46000: 18 lbs (8.2 kg)
K46100: 550 lbs (250 kg)
K46300/K46500: 605 lbs (275 kg)
Dimensions:
K46000: 2.6 Cu. ft.
K46100: 14.1 Cu. ft.
K46300/K46500: 60.6 Cu. ft.

accessories

catalog no.	description
332-004-001	Test Jar Clear, flat bottom jar with sample height graduation
250-000-05F	ASTM 5F Thermometer, range: –36 to +120°F
250-000-05C	ASTM 5C Thermometer, range: –38 to +50°C
250-000-06F	ASTM 6F Thermometer, range: –112 to +70°F
250-000-06C	ASTM 6C Thermometer, range: –80 to +20°C
K46120	Cork Disk
K46130	Foam Sponge Disc
AS568-219	Gasket, for test jar
K460-0-8	Thermometer Holder, for test jar
K460-1-7B	Copper Jacket

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