

PENETRATION

Penetrometer Cones, Needles and Accessories

- Precision machined cones and needles for ASTM and related methods
- Sample containers
- Constant temperature baths
- Grease workers and accessories
- Roll stability testers
- USDA and AOCS penetrometer cones

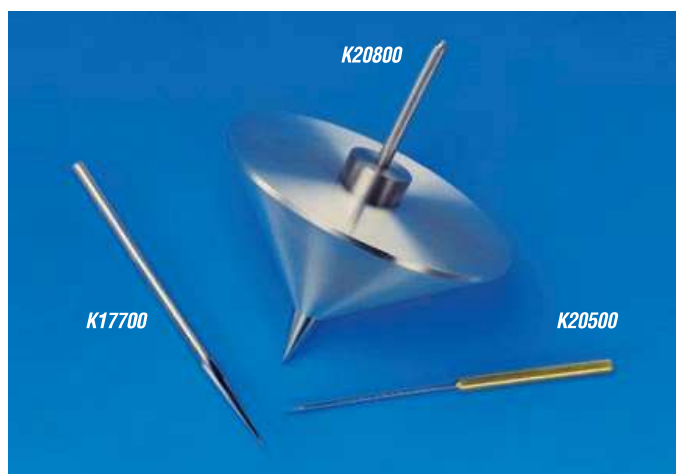
Use together with K19500 and K95500 series penetrometers to determine the consistency of petroleum products. Please call or write for information on non-petroleum test applications.

Needle Penetration of Petroleum Waxes

Test Method Standards

ASTM D1321; IP 376; DIN 51579

K17700	Needle, Stainless Steel, 2.5g
K17770	Needle, Stainless Steel, 2.5g, NIST Certified
K17710	Wax Specimen Container Brass cylinder with base plate conforming to ASTM D1321 specifications
K95600	Penetration Bath, 115V, 60Hz
K95690	Penetration Bath, 230V, 50/60Hz



Penetration of Bituminous Materials

Test Method Standards

ASTM D5; IP 49; DIN 52010

K20500-00000	Needle. Stainless steel with brass ferrule, 2.5g
K20570-00000	Needle. Similar to K20500, NIST certified, 2.5g
K20600-00000	Needle. Stainless steel with stainless steel ferrule, 2.5g
K20670-00000	Needle. Similar to K20600, NIST certified, 2.5g
388-001-003	Sample Container, 55mm dia. x 35mm depth for penetrations below 200
388-001-006	Sample Container, 70mm dia. x 45mm depth for penetrations between 200 to 350
357-000-001	Transfer Dish Submerges sample container per ASTM specifications
K95600	Penetration Bath, 115V, 60Hz
K95690	Penetration Bath, 230V, 50/60Hz

Cone Penetration of Lubricating Greases

Test Method Standards

ASTM D217; IP 50; ISO 2137; DIN 51804; FTM 791-311, FTM 791-313

K20800	Cone, Magnesium With hardened stainless steel tip, 102.5g Standard cone per ASTM D217
K20000	Cone, Brass With hardened stainless steel tip, 102.5g Optional cone per ASTM D217
K18100	Grease Worker series. Refer to page 28 for specifications and ordering information
K19100	Grease Cutter For 'block penetration' tests
K95600	Penetration Bath, 115V, 60Hz
K95690	Penetration Bath, 230V, 50/60Hz

Please inquire with Customer Service about accessories for food, cosmetics, paints, soaps, and other consistency measurement applications utilizing the Penetrometer.

PENETRATION

Cone Penetration of Lubricating Grease Using One-Quarter and One-Half Scale Cone Equipment

Test Method Standards

ASTM D1403; IP 310; ISO 2137; DIN 51804



K20900	Quarter-Scale Cone, Aluminum, 2.48g
K95519-00000	Plunger, 6.9g For use with K95500 series Digital Penetrometer
K20910	Plunger, 6.9g For use with K19500 series Penetrometer
K21000	Quarter-Scale Grease Worker Consists of cup and cover assembly with plunger plate, shaft, handle and valve
K21002	Retaining Base Plate Mounts on bench or wall to retain Quarter-Scale Grease Worker when working heavy greases.
K21001	Blank Lid With seal, for Quarter-Scale Grease Worker. Use when heating samples prior to test.
K20200	Half-Scale Cone. Stainless Steel, 22.5g
K95573-00000	Plunger, 15g For use with K95500 series Digital Penetrometer
K19520	Plunger, 15g For use with K19500 Penetrometer
K20210	Half-Scale Grease Worker
K95600	Penetration Bath, 115V, 60Hz
K95690	Penetration Bath, 230V, 50/60Hz

Cone Penetration of Petrolatum

Test Method Standards

ASTM D937; IP 179; ISO 2137; DIN 51580

K20800	Cone, Magnesium With hardened stainless steel tip, 102.5g
K20700	Sample Container With cover, conforms to ASTM D937 specifications
K95600	Penetration Bath, 115V, 60Hz
K95690	Penetration Bath, 230V, 50/60Hz

Roll Stability of Lubricating Grease

Test Method Standard

ASTM D1831

K18300	Roll Stability Tester series (page 156)
K20900	Cone Penetration Test Equipment, One-Quarter or One-Half Scale series

Additional Penetration Cones

K19800	Magnesium Cone, 15g For ASTM D2884 testing of Heterogeneous Propellants
K19900	Aluminum Cone, 45g For AOCS CC 16-60 testing of fats, butter, margarine
K20090	Aluminum Cone, 35g For USDA testing of pastes
K20300	Aluminum Micro-Cone, 5g For lubricating greases, cosmetic creams. Use together with K20310 Sample Cup and Collar



K20300 Aluminum Micro Cone



K19900 Aluminum Cone