



Cleveland Open Cup Flash Point Tester ASTM D-92; AASHTO T-48.

- **Precisely aligned applicator per test standards.**
- **Hinged thermometer support raises for easy insertion and removal of test cup.**
- **Built-in needle and comparison bead for flame size adjustments.**
- **Easy-to-clean, stainless steel housing.**

The Flash Point Tester is used to determine the flash and fire points of all petroleum products except fuel oils and those having flash points below 175°F (79°C).

The tester consists of a test flame applicator, brass test cup, thermometer support, heating plate and electric heater. The applicator is precisely aligned per specifications, and pivots for convenient test flame application at specified temperature intervals. The hinged thermometer support raises to facilitate placement and removal of the test cup.

Mounted on a sturdy cast iron base, the 750 Watt nickel-chromium heater incorporates a variable stepless transformer for accurate control of temperature rate-of-rise per specifications. The complete assembly is enclosed in a stainless steel housing with cooling vents.

Specifications

Range.	For flash points above 175°F (79°C).
Heater.	Electric; 750 Watt nickel-chromium with variable stepless transformer for temperature control.
Cup.	Open type; brass with heat-resistant handle.
Dimensions.	10" x 5-1/2" x 14" (254 x 140 x 356 mm).
Weight.	Net 17-1/2 lbs. (7.9 kg); Shpg. 21 lbs. (9.5 kg).

Ordering Information

Note: Thermometer not included order separately.

- EI46-3312/02.** 115vAC, 50/60 Hz, 1ø.
EI46-3312/01. 220-240vAC, 50/60 Hz, 1ø.

Accessories

- EI46-3315.** Thermometer. 20-760°F. x 5.0°; 12" l.
EI46-3317. Thermometer. -6-400°C. x 2.0°; 305 mm l.

Softening Point Apparatus ASTM D-36, D-2398, E-28; AASHTO T-53.

Specifications

Components.	800 ml beaker; two standard balls; shouldered rings and ball centering guides; support rings; upper and lower shelves; and cover. Hole in cover permits insertion of thermometer through a #8 cork or #2 rubber stopper (not included).
Weight.	7 lbs. (3.2 kg).

Ordering Information

Note: Thermometer not included; order separately.

EI46-4504.

Accessories

- EI46-4506.** Softening Point Thermometer. 30-180°F.
EI46-4507. Softening Point Thermometer. 85-392°F.
EI46-4508. Softening Point Thermometer. -2-80°C.
EI46-4509. Softening Point Thermometer. 30-200°C.

Emulsified Asphalt Distillation Apparatus ASTM D-244; AASHTO T-59.

Specifications

Components.	Aluminum still, still support, ring burner, auxiliary burner, connecting tube, condenser tube with jacket, shield, graduated cylinder, support stands, clamp and clamp holder.
Weight.	Net 19 lbs. (8.6 kg).

Ordering Information

Note: Thermometer not included; order separately.

EI46-2215.

Accessories

- EI46-2216.** Thermometer. 30-580°F. x 2.0°; 15" l.
EI46-2217. Thermometer. -2-300°C. x 1.0°; 381 mm l.

Float Test Apparatus ASTM D-139; AASHTO T-50.

Specifications

Float.	Aluminum construction.
Collars.	Machined brass (3 included).
Weight.	Net 4 oz. (113 g).

Ordering Information

Note: Thermometer and bath apparatus required for test not included.

EI46-2225.

Accessories

- EI46-2227.** Thermometer. 20-760°F. x 5.0°; 12" l.
EI46-2228. Thermometer. -6-400°C. x 2.0°; 305 mm l.

Apparatus for Distillation of Cut-Back Asphalts

ASTM D-402; AASHTO T-78.

Specifications

Components.	500 ml Church distilling flask, condenser, adapter, shield, receiver, supports, burner and wire gauze.
Weight.	Net 12 lbs. (5.4 kg).

Ordering Information

Note: Thermometer not included; order separately.

EI46-2210.

Accessories

EI46-2218.	Thermometer. 30-760°F. x 2.0°; 15" l.
EI46-2219.	Thermometer. -2-400°C. x 1.0°; 381 mm l.

Apparatus for Water in Petroleum Products

ASTM D-95, D-244; AASHTO T-55, T-59.

Specifications

Components.	Aluminum still, ring burner, support stand, condenser, receiving trap and clamps.
Weight.	Net 12 lbs. (5.4 kg).

Ordering Information

Note: Thermometer not included; order separately.

EI46-2230.

Accessories

EI46-2218.	Thermometer. 30-760°F. x 2.0°; 15" l.
EI46-2219.	Thermometer. -2-400°C. x 1.0°; 381 mm l.



Bacon Sampler

ASTM D-140; AASHTO T-40.

Specifications

Body.	Cylindrical; threaded for upper and lower covers, nickel plated brass.
Plunger.	Tapered; acts as valve to admit sample.
Top.	Lock keeps plunger closed after sampling.
Guide Holes.	For drop cord; located at top and middle.
Capacity.	8 oz. (237 ml).
Overall Dimensions.	2" diam. x 10" l. (50.8 mm x 254 mm).
Weight.	Net 2 lbs. (0.9 kg).

Ordering Information

Note: Drop cord not included

EI46-0900.