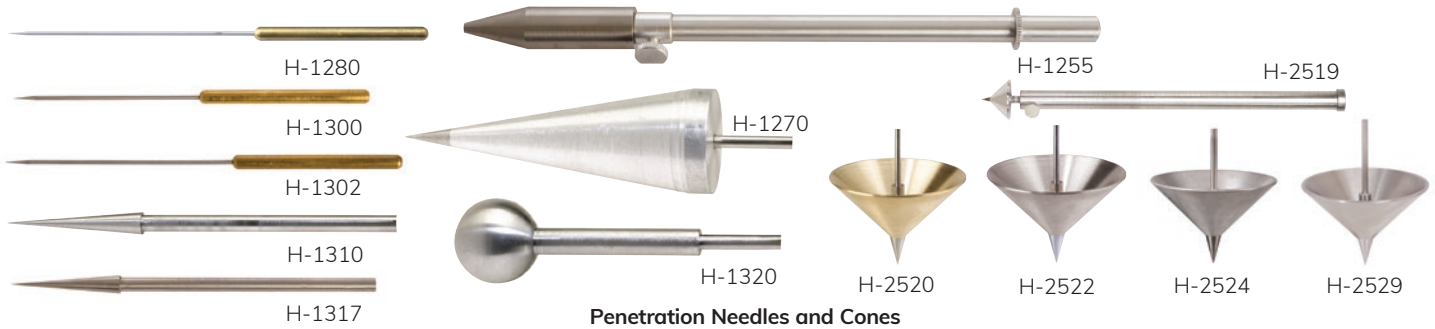




Penetration Needles and Cones

Bituminous materials ASTM D5; AASHTO T49, IP49; ASA Std. A37.1; Fed Spec. SS.R. 406C, Meth. 214.01	Standard hardened stainless steel needle, 40-45mm exposed needle length. Wt. 2.5g.	H-1280	Measuring firmness of solid and plasticized fats: shortenings, butters AOCS Cc 16-60	20° aluminum cone, 3.2mm ferrule, 0.8mm stainless steel blunt tip. Overall length 106mm. Wt. 45g.	H-1270
	Standard hardened stainless steel needle, 40-45mm exposed needle length. Certified to ASTM accuracy by independent laboratory. Wt. 2.5g.	H-1300			
	Long hardened stainless steel needle, 50-55mm exposed needle length. Wt. 2.5g.	H-1290			
	Long hardened stainless steel needle, 50-55mm exposed needle length. Certified to ASTM accuracy by independent laboratory. Wt. 2.5g.	H-1302			
Waxes with 250 or less penetration ASTM D1321	Hardened stainless steel wax penetration needles with tapered point, blunt tip of truncated cone. Ferrule is approx. 3.2mm dia. Wt. 2.5g.	H-1310	Recovery of used grease, small samples ASTM D1403	1/4 scale. (Not considered a substitute for full-size cone specified in ASTM D217.) Wt. 9.38g	H-2519
	Same as H-1310. Certified to ASTM accuracy.	H-1317			
Battery paste	Hardened stainless steel tip with special plunger. Total wt. 60g ± .050g.	H-1255	Grease testing penetrometers ASTM D217, D937 ASA Std. Z11.3	Hollow 90° brass cone, highly polished stainless steel tip. Removable nut and stem. Wt. 102.5g.	H-2520
Joint sealant for asphalt & concrete pavements ASTM D5329	Resilience ball penetration tool. Total wt. 27.5g.	H-1320			
			Hollow 90° stainless steel cone, highly polished stainless tip. Removable nut and stem. Wt. 102.5g.	H-2522	H-2524
			ASTM D2884	Hollow 90° Magnesium cone and plunger. Total cone wt. 30.0g	H-2529
			Food, Paste, Paints U.S. Dept of Agriculture	Hollow 90° Aluminum cone and tip. Total wt. 35g	H-2525
			Applications requiring 90° cones, ASTM D217, D937 ASA std. Z11.3	Stainless steel replacement tip, nut and stem.	H-2525

Aluminum Moisture Boxes

Flat-bottom, straight-side seamless aluminum box has tight fitting cover, which fits bottom of box as well. Protects sample from exposure during storage and weighing operations.

Aluminum Moisture Boxes

See chart below

Sample Cups, Tin

Flat-bottom, seamless tin sample cups have telescoping covers. Hold samples for determining penetrations.

Sample Cups, Tin

See chart to right



Sample Cups, Tin

Capacity	Dimensions	Quantity	Model
2.5 oz (71g)	1.87" (47.5mm) ID, 1.42" (36mm) deep	48	H-1350.3A
3 oz (85g)	2.25" (57.1mm) ID, 1.42" (36mm) deep	36	H-1350.3
4.7 oz (133g)	2.42" (61.5mm) ID, 1.67" (42.6mm) deep	36	H-1350.4A
5.6 oz (159g)	2.59" (66mm) ID, 1.72" (43.4mm) deep	36	H-1350.6A
8.2 oz (232g)	3.05" (77.5mm) ID, 1.97" (50mm) deep	18	H-1350.8A
16 oz (454g)	4" (102mm) ID, 2.375" (60.3mm) deep	1	H-1350.16
42.3 oz (1200g)	6.12" (155mm) ID, 3" (76.2mm) deep	1	H-1350.42
70.5 oz (2000g)	6.12" (155mm) ID, 5" (127mm) deep	1	H-1350.70

Moisture Boxes, Aluminum

OD	ID	Height	Inside Ht.	Volume cu. in./fl. oz.	Model
2" (51mm)	1.975 (50mm)	.875" (22mm)	0.865" (22mm)	2.650 (44cc) 1.47 (44ml)	H-4926
2.5" (64mm)	2.470 (63mm)	1.75" (44mm)	1.746" (44mm)	8.366 (137cc) 4.64 (137ml)	H-4927
3" (76mm)	3.000 (76mm)	1" (25mm)	0.985" (25mm)	6.963 (114cc) 3.86 (114ml)	H-4928
3.5" (89mm)	3.490 (89mm)	2" (51mm)	1.990" (51mm)	19.037 (312cc) 10.55 (312ml)	H-4929