



H-4238



H-4245  
H-4249

### Density Apparatus— H-4245

Sand density apparatus determines the in-place density of soils. Set includes 1-gal. (3.79L) threaded jar, detachable double cone consisting of a brass cylindrical valve with a 1/2" (12.7mm) dia. orifice. Valve has stops that prevent rotating past completely open or completely closed positions. Bottom cone 6-1/2" (165mm) dia. flanged opening fits the opening of the H-4246 field density plate (order separately). Meets ASTM D1556; AASHTO T191. Shipping wt. 10 lbs. (4.5kg)

### Field Density Plate— H-4246

Used with H-4245 density apparatus to simplify removal of soil from test mold and act as template to control hole diameter. Cast aluminum alloy. Size 12 x 12" (305 x 305 mm). Meets ASTM D1556; AASHTO T191.

### Density Apparatus— H-4249

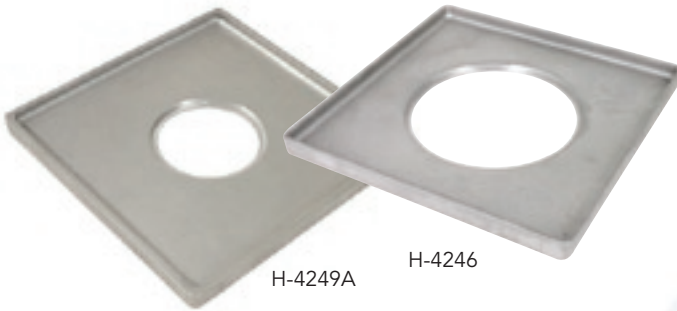
Similar to H-4245, but with 4-1/2" (114mm) dia. bottom cone flanged to fit opening of the H-4249A field density plate (order separately). Shipping wt. 8 lbs. (3.6kg)

### Field Density Plate— H-4249A

Used with H-4249 density apparatus. Same as H-4246 Field Density Plate except with 4-1/2" (114mm) dia. hole.

### Replacement Jar— H-4238

1-gal (4L) capacity threaded plastic replacement jar is same as furnished with H-4245.



H-4249A

H-4246

### Sand Density Cone— H-4248

For determining in-place density of gravel and coarse soils. Features two identical cones (top cone is clear plastic) with large valve in middle and circular density plate. Flange that fits the lower cone allows apparatus to be used on holes up to 12" (305mm) dia. Meets U.S. Army Corps of Engineers specifications. Shipping wt. 50 lbs. (22.7kg)

### Density Sand— H-3821

Clean, dry, free-flowing uncemented sand has few, if any, particles passing the No. 200 (75mm) or retained on the No. 10 (2.00mm) sieves. The sand's variation in bulk density does not vary greater than 1 percent. Packaged in a heavy reinforced bag. Meets ASTM D1556; AASHTO T191. Shipping wt. 50 lbs. (22.7kg)



H-3821



H-4248



H-4117

### In-place Density Accessory Kit— H-4117

Accessory Kit for use with Sand Density Cones and Voluversels. Includes: 100 Sample Bags and Ties, a pocket dial thermometer, a bristle brush, a stainless steel spoon, a steel chisel and a rubber mallet. Does not include sand.