



Hydrometer Analysis Set

ASTM D7928; AASHTO T88

This complete hydrometer analysis setup includes the Humboldt hydrometer jar bath combined with hydrometer analysis accessories to provide a complete testing set. Set includes:

Components	
Hydrometer jar bath	H-4239A
Soil hydrometer A	H-4241
Soil hydrometer B	H-4242
Hydrometer jars, (8)	H-4244
Soil dispersion mixer	H-4260A
Stopper for Hydrometer Jar (8)	H-4244RS
Sodium Hexametaphosphate (1lb.)	H-4247

Hydrometer Analysis Set, 120V 60Hz H-4263A
Hydrometer Analysis Set, 220V 50/60Hz H-4263A.4F

Shipping wt. 225lbs (102 kg)

Hydrometer Jar Bath

ASTM D7928; AASHTO T88; UNE 103.102

The Humboldt hydrometer jar bath is designed to provide a 68°F (20°C) ambient temperature throughout the unit by using a microprocessor-based temperature control with integral heater and chiller. The control processor in the H-4239A provides a consistent bath temperature of 68°F (20°C) accurate to within 0.1% of input span $\pm 1^\circ\text{F}$, which makes it an ideal bath for storing hydrometer jars in accordance with the standards listed above. The Hydrometer bath also can be used for many other processes within a lab and can be set to maintain temperatures within its temperature range of 50°F (10°C) and 120°F (49°C). The H-4239A jar bath is fully-insulated and includes a circulating pump, which ensures a constant water temperature throughout bath. The H-4239A can accommodate (8) hydrometer jars at a time. All models include a stainless steel shelf, which supports specimens while allowing 2" of free circulating water above and below specimens.

- Tank volume: 20.5 gallons (77.6 Liters)
- Bath dimensions: ID: 37"L x 8"W x 16"D (940 x 203 x 406 mm)
- Overall dimensions: 48"L x 11"W x 19"D (1220 x 280 x 483 mm)

Hydrometer Jar Bath, 110V 60Hz H-4239A
Hydrometer Jar Bath, 220V 50/60Hz H-4239A.4F

Shipping wt. 195lbs (88 kg)

Hydrometer Jar

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Graduated glass cylinder used in determining amount of soil in dispersed suspensions contains 1000ml at 20°C (68°F). Open end is fire-polished without pour-out. Dimensions: 18" (457mm) x 2.5" OD (64mm). Base is 4.333" (110mm).

Hydrometer Jar H-4244
Shipping wt. 2lbs (1 kg)

Soil Hydrometer A

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Seamless, symmetrical stem and bulb do not vary in diameter. One-piece ballast is secured to lower part of the body. Guaranteed calibration accuracy eliminates errors due to variable dilution. H-4241 uses ASTM 152 H scale, graduated to read in grams per liter (g/L) of suspension and has a range of -5 to +60g/L in 1g/L divisions at 68°F (20°C). Total length: 11" (280mm).

Soil Hydrometer A H-4241
Shipping wt. 2lbs (1kg)

Soil Hydrometer B

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Seamless, symmetrical stem and bulb do not vary in diameter. One-piece ballast is secured to lower part of the body. Guaranteed calibration accuracy eliminates errors due to variable dilution. H-4242 uses ASTM 151 H scale, graduated to read specific gravity with a range of 0.995 to 1.038 in 0.001 divisions at 68°F (20°C). Total length: 11" (280mm). Total length: 11" (280mm).

Soil Hydrometer B H-4242
Shipping wt. 1.3lbs (0.59 kg)

Soil Dispersion Mixer

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Modified mixer to meet specifications is used for dispersing soil suspensions used in hydrometer method of testing sub-grade soils. Heavy-duty mixer operates at a speed above 10,000 RPM (no load). Includes stirring apparatus with H-4266 stainless steel paddle and H-4265 chrome-plated dispersion cup with 4 sets of permanent interior baffles. Rounded cup bottom prevents soil accumulation. Furnished with 5' cord and 3-prong plug. Dimensions: 20" x 6.5" x 7" (508 x 165 x 178mm).

Soil Dispersion Mixer, 120V 60Hz H-4260A
Soil Dispersion Mixer, 230V 50/60Hz H-4260A.4F
Shipping wt. 17lbs (7.7 kg)

Dispersion Cup

Chrome-plated dispersion cup for use with H-4260 mixer.

Dispersion Cup H-4265
Shipping wt. 1.1lbs (0.49 kg)

Stirring Paddle

Stirring paddle with 3 blade surfaces, 0.75" (19mm) dia. for H-4260A mixer. Shaft threads onto mixer.

Stirring Paddle H-4266
Shipping wt. 0.1lbs (0.45 kg)

Sodium Hexametaphosphate

Dispersing agent used in combination with gradation analysis of soils.

1 lb (0.5kg) H-4247
10 lb (4.5kg) H-4247.10
Shipping wt. 1.6lbs (0.7kg) 11.6lbs (5.2 kg)

Stopper for Hydrometer Jar

Rubber stopper for hydrometer jars

Stopper (Hydrometer Jar) H-4244RS
Shipping wt. 0.2lbs (0.09 kg)

Accessory Thermometer	Model
Thermometer, 33F	H-2600.33F
Thermometer, 33C	H-2610.33C