



IF IT'S WORTH BUILDING, IT'S WORTH TESTING

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24-4640

**Soil Hydrometer Type 152H ASTM/Aashto Graduated -5 to + 60G/Litre.**

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24-4145

**Sodium Hexametaphosphate 500G.**

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24-4700

**1000ML Glass Hydrometer Sedimentation Cylinder with Rubber Bung.**

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39-0414

**2" Cube Test System**

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**Cement Cube Mould - ASTM**

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39-0414/12

**Compression Pads**

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**Mixing Pan - Rectangular Stainless - 11" x 9" x 3"**

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88-7820

**Wire Concrete Mould Brush**

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79-7225

**Fine Sieve Brush - 1" x 10-1/2"**

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37-5420

## Sub-Platen Assembly for 150mm Dia Specimens for Split Cylinder Testing to BS1881 / EN12390-6

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## Combination Permeameter

Code: 25-0623

Product Group: Combination Permeameter Constant or Falling Head, Combination Permeameter

- Plated steel chamber head assembly
- Corrosion-resistant cast aluminum base assembly
- Includes accessories for conducting both constant and falling head permeability studies

This combination permeameter has a transparent plastic chamber for soil specimens of either fine-grained or coarse-grained soils. Generally, soils containing 10 percent or more particles passing a 75  $\mu\text{m}$  sieve are tested using the falling head assembly. More granular soils, containing 90 percent or more particles retained on the 75  $\mu\text{m}$  sieve, are tested using the constant head assembly.

The cell is sealed at the top so that a vacuum may be used to saturate the specimen. Porous stones located at the top and bottom of the cell prevent sample flaking or washout. For constant head tests, a plastic funnel reservoir is mounted on an upright attached to the cell, providing a maximum head of 550 mm. Falling head tests are performed using the graduated pipette falling head reservoir, which gives a maximum head of 1000 mm and is graduated 0.2 ml.

## Specification

Specimen size	63.5 x 63.5 mm (dia x l max) when using lower chamber only, 63.5 x 140 mm (dia x l max) when using both lower and extension chambers
Chamber	Transparent plastic, two sections
Base	Cast aluminium
Top seal	Plated steel with gaskets
Porous Stones	62.7 x 12.7 mm (diameter x thickness)
Constant head	Plastic, funnel reservoir, 550 mm maximum head
Falling head	Graduated pipette, 100 ml x 0.2 ml, 1000 mm maximum head
Weight kg	5
Specimen Size	2-1/2" diam. x 2-1/2" l. max. (63.5 x 63.5 mm) when using lower chamber only; 2-1/2"

# Product Sheet

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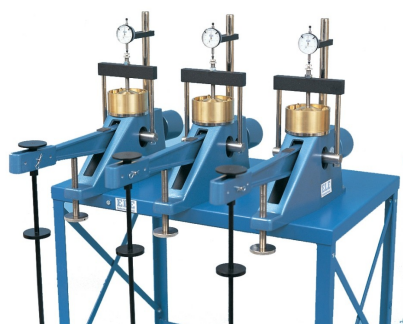
Capacity	diam. x 5-1/2" l. max. (63.5 x 140 mm) when using both lower and extension chambers. Clear lucite; 1/4" (6.3 mm) wall; two sections.
Base	Cast aluminum.
Top Seal	Plated steel with gaskets.
Porous Stones	Mounts at top and bottom; 2.47" diam. x 1/2" thick (62.7 x 12.7 mm); 105-120 permeability rating; 300 micron, average pore size.
Constant Head	Plastic; funnel reservoir; 55 cm maximum head.
Falling Head	Graduated pipette; 100 cc x 0.2 cc; 100 cm. maximum head.
Weight	Net 11 lbs. (5 kg).

## Spares/Consumables



### Porous Stone 2.47" x .50"

Code: [T-308](#)



## Consolidation Frame One Dimensional Consolidation Incremental Loading Device.

Code: 25-0402

Product Group: Consolidation Apparatus, Table Top Consolidation Apparatus

- High capacity - 8800 kPa on 50 mm diameter specimens using 11:1 beam ratio
- Triple beam ratio, 9:1, 10:1, 11:1
- Compact unit ensures maximum space saving

The ELE Oedometer is rigidly constructed to ensure minimum frame distortion. The frame is designed to load the specimen through a yoke assembly and one of three alternative beam ratios. The beam is fitted with a counterbalance weight and beam support jack. The cell platform will accept the complete range of ELE consolidation cells and is fitted with a central spigot to ensure accurate centring of the cell under the loading yoke. Dimensions without hanger 711 x 203 x 508 mm (l x w x h). Weight 22 kg.

## Standards

BS 1377, EN 1997-2, ASTM D2435, ASTM D4546, AASHTO T216

## Further Information

Supplied without dial gauge and weights.

## Specification

Load Capacity	48 tons/sq. ft. (5,148 kPa) on 2.5" (63 mm) diam. samples.
Loading Beam	Cast aluminum; counterbalanced; 9:1, 10:1 and 11:1 ratios.
Frame	Cast aluminum; integral beam support jack; plated steel and platform.
Dimensions	8" w. x 28" d. x 20" h. (203 x 711 x 508 mm), excluding weight hanger.
Weight	Net 30 lbs. (13.6 kg); Shpg. 40 lbs. (18.1 kg).



## 16 Ton Weight Set

Code: [25-0544](#)

Product Group: [Table Top Consolidation Apparatus](#)

Includes: two 1/16 ton, one 1/8 ton, one 1/4 ton, one 1/2 ton, one 1 ton and seven 2 ton weights.

## Further Information

for use with 2.5" diameter samples





## 2.416" Fixed Ring Consolidometer

Code: [25-0480](#)

Product Group: [Fixed Ring Consolidation, Pneumatic Consolidation Apparatus, Table Top Consolidation Apparatus](#)

With cutting (specimen) ring.

## Standards

ASTM D2435, ASTM D4546, AASHTO T216

## Specification

Application	California
Specimen Diameter	2.41 6" $\pm$ 0.005"
Specimen Area	4.585 in <sup>2</sup>
Beam Ratio	10:01
Load	1.45 kg
Stress	1000 lbf/ft <sup>2</sup>
Typical Maximum Stress	11 0,720 lbf/ft <sup>2</sup>
Stress for 1 kg	692 lbf/ft <sup>2</sup>

## Spares/Consumables



## Upper and Lower Porous Stones, 2.416"

Code: [25-0480/13](#)



## Consolidation Transducer Assembly 15mm Travel Fitted with 5 Pin Din Plug.

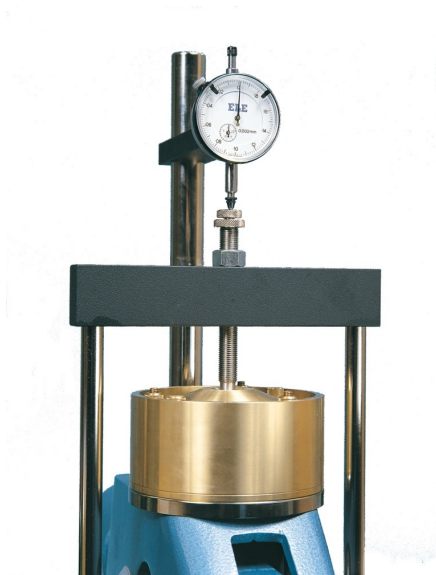
Code: [27-1649](#)

Product Group: [Displacement Transducers, Vertical settlement measurement, Displacement Measurement](#)

Fitted with 5 pin DIN plug.

### Specification

Construction	Fully encapsulated electronics, sealed in a stainless steel case
Excitation	11 V DC
Connector	5-pin DIN type
Mounting bracket	Included as standard
Weight kg	0.45
Construction	Fully encapsulated electronics, sealed in a stainless steel case.
Excitation	10vDC.
Connector	5-Pin DIN type.
Mounting Bracket	Included as standard.
Weight	Net 1 lb. (0.45 kg).



## Dial Gauge 10mm Travel X 0.002mm Divisions.

Code: [25-0440](#)

Product Group: [Measurement of Horizontal and Vertical Movement](#), [Vertical settlement measurement](#), [Direct/Residual Shear Apparatus](#)

10 mm x 0.002 mm div.



## Aluminium Moisture Cans - 2" Diameter

Code: [88-7002](#)

Product Group: [Aluminium Moisture Boxes](#)

2" diam. x 7/8" h. (51 x 22 mm). Carton of 12.

## Specification

Construction

Heavy-gauge aluminum.

Lid

Fits onto bottom as well as top of box.



## Digital Pocket Thermometer

Code: [88-4434](#)

Product Group: [Digital Pocket Thermometers](#)

Fahrenheit scale and Celsius scale.

## Standards

ASTM D854

## Specification

Range

-58Â° to +392Â°F or -50Â° to 200Â°C.

Resolution

0.1Â°F or 0. 1Â°C.

Weight

5 oz. (142 g).



## Pistol-Grip Infrared Thermometer

Code: [88-4400](#)

Product Group: [Pistol Grip Infrared Thermometers](#)

### Specification

Range	-33°C to +500°C.
Accuracy	±2% or 2°C whichever is greater
Repeatability	±1.0% of reading or ±1°C, whichever is greater
Response Time	500 mSec.
Spectral Response	8 - 14 µm
Display Resolution	0.1°C (4 Digit LCD)
Emissivity Value	Pre-set 0.95.
Power	2 x 1.5V AAA alkaline batteries
Dimensions	6.9" x 1.5" x 3.1" (175 x 39 x 79 mm).
Weight	6.35 oz. (180 g).



## Evaporating Dish - 385 ml Capacity

Code: [88-6714](#)

Product Group: [Evaporating Dishes](#)

145 mm diam.; 385 ml capacity.



## Plastic Dispensing Bottle - 250 ml Capacity

Code: 88-6610

Product Group: Plastic Dispensing Bottles

8 oz. (250 ml) capacity.

### Specification

Material

Conventional polyethylene;  
non-toxic, non-contaminating;  
withstands nearly all chemicals  
at room temperature for 24 hrs.

Temperature Tolerances

176°F (80°C) maximum;  
-148°F (-100°C) brittleness.

Weight

Net 2 oz. (56 g).





## Plastic Dispensing Bottle - 500 ml Capacity

Code: [88-6612](#)

Product Group: [Plastic Dispensing Bottles](#)

16 oz. (500 ml) capacity.

### Specification

Material

Conventional polyethylene;  
non-toxic, non-contaminating;  
withstands nearly all chemicals  
at room temperature for 24 hrs.

Temperature Tolerances

176°F (80°C) maximum;  
-148°F (-100°C) brittleness.

Weight

Net 2 oz. (56 g).



## Glass Graduated Beaker - 1 Litre Capacity

Code: [88-6112](#)

Product Group: [Glass Graduated Beakers](#)



## Glass Graduated Beaker - 400 ml Capacity

Code: [88-6108](#)

Product Group: [Glass Graduated Beakers](#)



## Graduated Cylinder

Code: [88-6012](#)

Product Group: [Glass Graduated Cylinders, Bitumen Extraction Test](#)

1000 ml

## Further Information

2 units required for Bitumen Extraction Test.

## Specification

Numbering

Double; with zero at top and bottom.

Packing

1 cylinder/carton.



## Mechanical Analysis Stirrer 120vAC

Code: [24-4132/02](#)

Product Group: [Mechanical Analysis Stirrer](#)

### Standards

ASTM D422, AASHTO T88

### Further Information

110vAC, 50/60 Hz, 1Ø. 125 Watts

### Specification

Motor	Universal AC-DC; up to 75 cycles; 3-speed selectable.
Speeds at No Load	Low: 13 ,000 rpm. Medium: 16,000 rpm. High: 18,000 rpm.
Housing	Die-cast aluminum; stainless steel front panel; baked enamel finish.
Controls	Rotary speed control switch; on-off switch.
Mixing Paddle	Disc-shaped; nickel-plated steel.
Dispersion Cup	4 stationary baffles, permanently mounted; rounded bottom.
Dimensions	7" w. x 6-1/2" d. x 20" h. (178 x 165 x 508 mm).
Weight	Net 15 lbs. (7 kg).
Motor	Universal AC-DC; up to 75 cycles; 3-speed selectable.
Speeds at No Load	Low: 13 ,000 rpm. Medium: 16,000 rpm. High: 18,000 rpm.
Housing	Die-cast aluminum; stainless steel front panel; baked enamel finish.
Controls	Rotary speed control switch; on-off switch.
Mixing Paddle	Disc-shaped; nickel-plated steel.

# Product Sheet

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Dispersion Cup	4 stationary baffles, permanently mounted; rounded bottom.
Dimensions	7" w. x 6-1/2" d. x 20" h. (178 x 165 x 508 mm).
Weight	Net 15 lbs. (7 kg).

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## Spares/Consumables



### Mixing Paddle

Code: [24-4132/11](#)



### Soil Dispersion Cup

Code: [24-4132/10](#)



## Soil Dispersion Cup

Code: [24-4132/10](#)

Product Group: [Mechanical Analysis Stirrer](#)

Capacity 32 oz. Net Wt. 1 lb. (454 g).

## Standards

ASTM D422, AASHTO T88



## Mixing Paddle

Code: [24-4132/11](#)

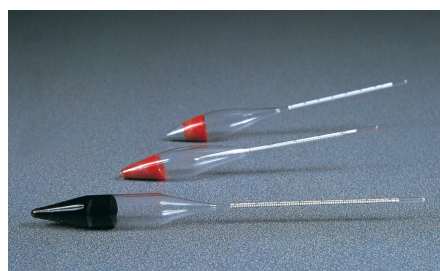
Product Group: [Mechanical Analysis Stirrer](#)

Net Wt. 1 oz. (28 g).

## Standards

ASTM D422, AASHTO T88





## Soil Hydrometer Type 152H ASTM/Aashto Graduated -5 to +60G/Litre.

Code: [24-4640](#)

Product Group: [ASTM Soil Hydrometers, Soil Hydrometers](#)

Graduated -5 to +60 g/litre.

## Standards

BS 1377, EN 1997-2, ASTM D422, ASTM E100, AASHTO T88

## Specification

Construction	Molded, seamless.
Scale	Bouyoucos; double scale.
Calibration	At 68°F.
Weight	Net 4 oz. (113 g).



## Sodium Hexametaphosphate 500G.

Code: [24-4145](#)

Product Group: [Sodium Hexametaphosphate,](#)  
[Mechanical Analysis Stirrer](#)

## Standards

ASTM D422, AASHTO T88, ASTM E100

## Spares/Consumables



## Solid Rubber Stopper

Code: [4699-0881](#)



## 1000ML Glass Hydrometer Sedimentation Cylinder with Rubber Bung.

Code: [24-4700](#)

Product Group: [Hydrometer Jar](#), [Hydrometer Sedimentation Cylinder](#)

1000 ml capacity complete with rubber bung.

## Standards

BS 1337, ASTM D422, AASHTO T88

## Specification

Construction

Glass.

Graduation

1,000 ml at 20°C.

Dimensions

2-1/2" o.d. x 18" h. (64 x 457 mm); 4-1/4" diam. (108 mm) base.

Weight

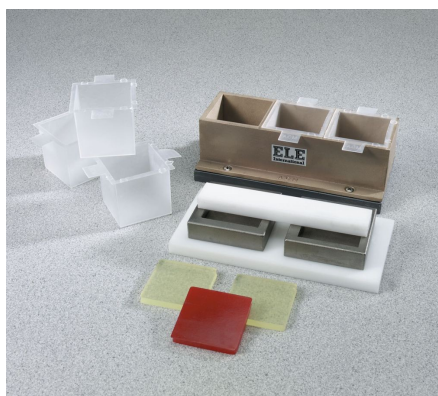
Net 1-1/2 lbs. (0.7 kg).

## Spares/Consumables



### Solid Rubber Stopper

Code: [4699-0881](#)



## 2" Cube Test System

Code: [39-0414](#)

Product Group: [2" Cube Test System](#)

Includes cast iron three gang mould, 27 liners, tamping rod, 2 retainer caps, 4 compression pads and utility knife

## Specification

Mold Frame

Cast iron; three gang.

Liners

Water tight polypropylene with tabs.

Tamping Rod

Polypropylene.

Retainer Caps

Stainless steel.

Compression Pads

Polyurethane; 1/4" (6.3 mm) thick.

Weight

Net 7 lbs. (3.2 kg).



## Cement Cube Mould - ASTM

Code: [39-0412](#)

Product Group: [Cement Cube Mould \(ASTM\)](#)

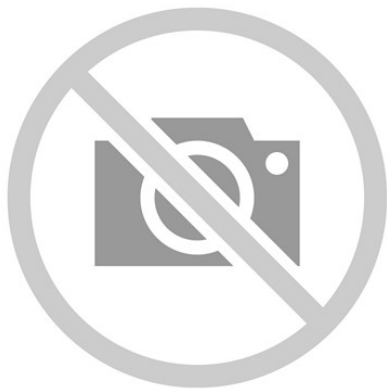
Three-gang mould, bronze.

## Standards

ASTM C87, ASTM C109, ASTM C141, ASTM C579, ASTM C593, AASHTO T106

## Specification

Sample Size	Up to three 2" (50.8 mm) cubes.
Construction	Forged bronze; three-gang with wideflanged top and base; machined and ground finish.
Mold Closure	Mechanical; 1/4" bolt screw clamps held in place by snap rings.
Base Plate	Machined forged bronze with knurled holddown screws.
Weight	Net 12 lbs. (5.4 kg).



## Compression Pads

Code: [39-0414/12](#)

Product Group: [2" Cube Test System](#)

Set of 4.



## Mixing Pan - Rectangular Stainless - 11" x 9" x 3"

Code: [88-7130](#)

Product Group: [Mixing Pans and Bowls](#)

Stainless steel; 11" x 9" x 3" (279 x 229 x 76 mm).



## Spatula - 4" Length

Code: [88-7500](#)

Product Group: [Spatulas](#)

4" l. x 11/16" w. (102 x 19 mm) blade.

## Specification

Handle

Wood.

Blade

Stainless steel.

Weight

Net 2 oz. (56 g).





## Wire Concrete Mould Brush

Code: [88-7820](#)

Product Group: [Brushes](#)

### Specification

#### Construction

Ten wire points/hole, 0.017 x 0.059 flat wire; 7- 3/4" x 2-5/8" (196 x 66 mm) hardwood block.



Fine Sieve Brush - 1" x 10-1/2"

Code: 79-7225  
Product Group: Sieve Brushes, Sieve Analysis Test, Brushes

Specification

Construction	Fine hair bristles with wood handle, 1" wide x 10-1/2" long (25 x 267 mm).
Construction	Fine hair bristles with wood handle; 1" w. x 10-1/2" l. (25 x 267 mm).
Weight	Net 1 oz. (28 g).



## Sub-Platen Assembly for 150mm Dia Specimens for Split Cylinder Testing to BS1881 / EN12390-6

Code: [37-5420](#)

Product Group: [Platen Assemblies](#)

For testing cylinders of 150 x 150 mm and 150 x 300 mm (diameter x length).

### Standards

EN 12350-6

### Further Information

\*\*Not available for sale in the USA\*\*