

















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

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#### Straight Edge 300mm.

Code: 24-9010

Product Group: BS/EN compaction test 4.5kg, Proctor

compaction, Straightedge

300 mm

#### **Standards**

BS 1377-4, BS 1924-2, ASTM D698, ASTM D1557, AASHTO T99, EN 13286-2, EN 13286-4, ASTM D1883, AASHTO T193, ASTM D558, ASTM D559, ASTM D560, AASHTO T134, AASHTO T135, AASHTO T136, AASHTO T180

#### **Specification**

Construction Flat ground tool steel; beveled

edge.

Dimensions L x W x T (300mm x 40mm x

6mm).

Weight 550g

#### **Accessories**



#### **ASTM Compaction Rammer 2.5Kg.**

Code: 24-9063

#### **Alternatives**



#### **ASTM Compaction Rammer 2.5Kg.**

Code: 24-9063

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#### **ASTM Compaction Rammer 2.5Kg.**

Code: 24-9063

Product Group: Proctor compaction, Standard

**Compaction Hammer** 

50.8mm diameter x 305mm deep.

#### Standards

ASTM D1557, AASHTO T180, ASTM D558, ASTM D559, ASTM D560, ASTM D698, AASHTO T99, AASHTO T134, AASHTO T135, AASHTO T136

#### **Specification**

Hammer 2" diam. (50.8 mm); 5-1/2 lbs.

(2.49 kg).

Drop 12 " (305 mm).

Guide Sleeve Machined steel tubing with air

pressure release holes

Finish Corrosion resistant Weight 4.1 kg (9 lbs)

#### **Accessories**



#### ASTM/Modified Proctor Compaction Rammer 4.5Kg.

Code: 24-9070



#### Straight Edge 300mm.

Code: 24-9010

#### **Alternatives**



#### ASTM/Modified Proctor Compaction Rammer 4.5Kg.

Code: 24-9070

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# Straight Edge 300mm.

Code: 24-9010



### **ASTM/Modified Proctor Compaction** Rammer 4.5Kg.

Code: 24-9070

Product Group: ASTM/Modified Proctor compaction,

**Modified Compaction Hammer** 

50.8mm diameter x 457.2 mm drop.

#### Standards

ASTM D1557, AASHTO T180

#### Specification

Hammer 2" diam. (50.8 mm); 10 lbs.

(4.5 kg).

18" (457.2 mm). Drop

Guide Sleeve Machined steel tubing with

integrally spun end cap; air pressure release holes.

Finish Corrosion resistant Weight Net 6.3 kg (14 lbs)

#### **Accessories**



#### **ASTM Compaction Rammer 2.5Kg.**

Code: 24-9063

#### **Alternatives**



#### **ASTM Compaction Rammer 2.5Kg.**

Code: 24-9063

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# **Cbr-Test 50 Machine 50kN Capacity BS** and ASTM Supplied with Stabilising Bar.

Code: 24-9150/01

Product Group: CBR Load Frames

- Single speed machine (BS/EN and ASTM)
- Rapid platen adjustment
- Complete with stabilising bar
- Compact, bench-mounting design
- Options for mechanical or electronic measurement

Designed for performing laboratory CBR tests to BS 1377, EN13286-47 and ASTM D1883, this bench mounting machine comprises a twin column frame incorporating a motorised drive system. Rapid adjustment of the platen is provided, which enables daylight to be taken up quickly and also close control of application of a seating load.

#### **Standards**

BS 1377, BS 1924, EN 13286-47, ASTM D1883, AASHTO T193

#### Specification

Dimensions (l x w x h) 550 x 400 x 1220 mm

Max vertical clearance800 mmHorizontal clearance255 mmPlaten diameter133 mmPlaten travel105 mmWeight kg80

#### Accessories



#### **50kN Clamped Boss Load Ring**

Code: 78-0860



**50kN S-type Load Cell** 

Code: 27-1559

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# **ASTM Cbr Mould Complete with Collar & Perferated Base**

Code: 24-9228



# **BS Cbr Mould Body.**

Code: 24-9198



# **BS Extension Collar**

Code: 24-9200



# **BS Solid Base or Top Plate**

Code: 24-9204



# **Cbr Penetration Piston (Adjustable).**

Code: 24-9183

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### **CBR Penetration Transducer 50mm Travel Fitted with 5 Pin** Din Plug.

Code: 27-1705



# **Clamped Boss Load Ring - 10.0 kN**

Code: 78-0460



# **Clamped Boss Load Ring - 2.0 kN**

Code: 78-0060



### **Clamped Boss Load Ring - 28.0 kN**

Code: 78-0760



# **Penetration Dial Gauge BS**

Code: 24-9186

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#### **Penetration Piston**

Code: 24-9182



# Penetration/Swell Dial Gauge ASTM.

Code: 24-9184

#### **Alternatives**



### **CBR-Test 50 Machine 50 kN Capacity BS and ASTM Supplied with Stabilising Bar.**

Code: 24-9150/02



# **Cbr-Test 50 Machine 50kN Capacity BS and ASTM Supplied** with Stabilising Bar.

Code: 24-9150/01



### **Cbr-Test 50 Machine 50kN Capacity BS and ASTM Supplied** with Stabilising Bar.

Code: 24-9150/06

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#### **MultiPlex 50 Load Frame**

Code: 25-3700/01



#### **Penetration Piston**

Code: 24-9182

Product Group: Penetration Measurement

1.935 mm2 (3 in2) area foot of case hardened steel. Designed to fit all ELE load rings.



# Penetration/Swell Dial Gauge ASTM.

Code: 24-9184

Product Group: Expansion (swell) Test Equipment, In-situ CBR, Conversion of In-situ to Laboratory CBR, Penetration Measurement

1 in travel x 0.0005 in divisions. Complete with rack extensions and chisel edge anvil.

Standards BS 1377, BS 1924



### Bracket and Adaptor. Dual Purpose Mounting Bracket for CBR Penetration Gauges EL24-9184/EL24-9186

Code: 24-9188

Product Group: In-situ CBR, Conversion of In-situ to Laboratory CBR, Penetration Measurement

Dual purpose mounting bracket for CBR penetration dial gauges. Allows gauge to be fixed to penetration piston or load ring.

Standards BS 1377, BS 1924



# **ASTM Cbr Mould Complete with Collar & Perferated Base**

Code: 24-9228

Product Group: ASTM/AASHTO CBR mould

With collar and perforated baseplate.

#### **Standards**

ASTM D1883, AASHTO T193

#### Specification

Mould 152.4 x 177.8 mm (inside

diameter x height)

Collar 50.8 mm height, fits both ends

of mould

Base plate Perforated
Construction All steel, plated

Weight kg

#### **Accessories**



4.5Kg Annular Surcharge Weight ASTM.

Code: 24-9243



5 Lb. Annular Surcharge Weight ASTM.

Code: 24-9245



**ASTM Cutting Collar.** 

Code: 24-9236

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### **ASTM Spacing Disc.**

Code: 24-9238

#### **Alternatives**



4.5Kg Annular Surcharge Weight ASTM.

Code: 24-9243



**5 Lb. Annular Surcharge Weight ASTM.** 

Code: 24-9245



**ASTM Cutting Collar.** 

Code: 24-9236



**ASTM Spacing Disc.** 

Code: 24-9238

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# **ASTM Spacing Disc.**

Code: 24-9238

Product Group: Spacer Discs, ASTM/AASHTO CBR

mould accessories

150.8 mm diameter x 61.4 mm deep.

### **Specification**

Construction Finish Weights Steel; machined on all sides.

Plated.

Net 18.9 lbs. (8.6 kg).

#### **Accessories**



**ASTM Cbr Mould Complete with Collar & Perferated Base** 

Code: 24-9228

#### **Alternatives**



**ASTM Cbr Mould Complete with Collar & Perferated Base** 

Code: 24-9228



# Filter Screen 150mm Dia with 0.15mm Mesh.

Code: 24-9240

Product Group: Filter Screen, ASTM/AASHTO CBR

mould accessories

150 mm dia, 150 µm mesh for use with ASTM mould.

#### Specification

Mesh Size Weight Brass; number 100. 5-15 /16âll diam. (135 mm). Net 1 oz. (28 g).

#### **Accessories**



Filter Paper Equivalent to Whatman No 5 150mm Dia Box of 100.

Code: 24-9250

#### **Alternatives**



Filter Paper Equivalent to Whatman No 5 150mm Dia Box of 100.

Code: 24-9250

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# 4.5Kg Annular Surcharge Weight ASTM.

Code: 24-9243

Product Group: ASTM/AASHTO CBR mould

accessories

#### **Accessories**



# **ASTM Cbr Mould Complete with Collar & Perferated Base**

Code: 24-9228

#### **Alternatives**



**ASTM Cbr Mould Complete with Collar & Perferated Base** 

Code: 24-9228



# 5Lb (2.27Kg) Split Surcharge Weight.

Code: 24-9244

Product Group: ASTM/AASHTO CBR mould

accessories, Surcharge Weights

### **Specification**

Construction Finish

Machined steel. Plated.

#### **Accessories**



**5 Lb. Annular Surcharge Weight ASTM.** 

Code: 24-9245

#### **Alternatives**



**5 Lb. Annular Surcharge Weight ASTM.** 

Code: 24-9245

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# Filter Paper Equivalent to Whatman No 5 150mm Dia Box of 100.

Code: 24-9250

Product Group: Filter Paper, ASTM/AASHTO CBR

mould accessories

Box of 100.

#### **Standards**

ASTM D1883, AASHTO T193

#### Specification

Grade Coarse.

Size 15 cm diam.  $(5.9 \hat{a} \mathbb{D})$ . Weight Net 8 oz. (22 7 g).

#### **Accessories**



Filter Screen 150mm Dia with 0.15mm Mesh.

Code: 24-9240

#### **Alternatives**



Filter Screen 150mm Dia with 0.15mm Mesh.

Code: 24-9240

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#### **Swell Plate**

Code: 24-9260

Product Group: Expansion (swell) Test Equipment,

Swell Plate

With adjustable stem.

#### **Standards**

ASTM D1883, AASHTO T193

#### **Specification**

Base Plate 5 15/16" diam. (150.8mm);

perforated.

Contact Head Adjustable; locks on stem with

knurled nut.

Construction Aluminium

Weight Net 2-1/2 lbs. (1.1 kg).



#### **Swell Stand**

Code: 24-9262

Product Group: Expansion (swell) Test Equipment,

**Tripod Attachment** 

For mounting Swell Dial Gauge in position on CBR

mould collar.

#### **Standards**

ASTM D1883, AASHTO T193

#### **Further Information**

Requires dial indicator; not included, order separately

#### **Specification**

Construction Machined, one-piece cast

aluminum.

Integral part of ssembly; holds Contact Head

dial indicator.

Construction 2" I. (50.8 mm) included.

Net 1 lb. (0.4 kg). Weight

#### **Accessories**



**Mechanical Dial Indicator - 25 mm Range Clockwise Movement** 

Code: 88-4110

#### Spares/Consumables

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# **Dial Indicator - 1.0" Range**

Code: 88-4100

#### **Alternatives**



# **Electronic Digital Indicator, 1.0"/25.4 mm range**

Code: 88-4220



#### **Clamped Boss Load Ring - 28.0 kN**

Code: 78-0760

Product Group: Clamped Boss Load Rings, Digital Tritest 50 Load Frame, Load Measurement, Proving Rings, CBR-Test 50 Machine, Conversion of In-situ to Laboratory CBR, Load Measurement, CBR Loading Press, Hand-Operated, Force measurement

#### Standards

BS 1377, BS 1924

#### Specification

Capacity: kN, kgf, lbf 28.0, 2800, 6000 Typical Design sensitivity: 25.5, 2.54, 5.45

N/div, kgf/div, lbf/div

Overall height mm 248
Approx weight kg 5.4
Capacity 28 kN

Value of CBR Average range of CBR

Capacity - Ibf 6,000
Capacity - kN 28
Capacity - kgf 2,800
Typical Design Sensitivity - 5.45

lbf/div

Typical Design Sensitivity - 25.5

kN/div

Typical Design Sensitivity - 2.54

Kgf/div

Overall Height 9.76" (248 mm) Approx Weight 11 .9 lbs.(5.4 kg)

#### **Accessories**



#### **50kN Clamped Boss Load Ring**

Code: 78-0860

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#### **Clamped Boss Load Ring - 10.0 kN**

Code: 78-0460



#### **Clamped Boss Load Ring - 2.0 kN**

Code: 78-0060



#### **Clamped Boss Load Ring - 3.0 kN**

Code: 78-0160



### **Clamped Boss Load Ring - 4.5 kN**

Code: 78-0260



### Digital Proving Ring, 6,000 lbs (28.0 kN)

Code: 78-0764

### Spares/Consumables



#### **Spare Dial Indicator for Load Rings**

Code: 78-5461

#### **Alternatives**

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#### **50kN Clamped Boss Load Ring**

Code: 78-0860



#### **Clamped Boss Load Ring - 10.0 kN**

Code: 78-0460



### **Clamped Boss Load Ring - 2.0 kN**

Code: 78-0060



#### **Clamped Boss Load Ring - 3.0 kN**

Code: 78-0160



#### **Clamped Boss Load Ring - 4.5 kN**

Code: 78-0260



# Digital Proving Ring, 6,000 lbs (28.0 kN)

Code: 78-0764

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#### **ASTM Cutting Collar.**

Code: 24-9236

Product Group: ASTM/AASHTO CBR mould

accessories, Cutting Edge

To fit ASTM CBR mould body, manufactured with a cutting edge to enable undisturbed samples to be taken in the field.

#### **Standards**

ASTM D1883, AASHTO T193

#### **Specification**

**Dimensions** 6" i.d. x 1-1/2" h. (152 .4 x 38

mm).

Construction Machined seamless steel

tubing; recessed for mounting

on CBR Mold.

Finish Plated.

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

#### **Accessories**



#### **ASTM Cbr Mould Complete with Collar & Perferated Base**

Code: 24-9228

#### **Alternatives**



#### **ASTM Cbr Mould Complete with Collar & Perferated Base**

Code: 24-9228

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### Proctor/Core Cutter Extruder Frame and Hydraulic Jack. Extrudes 100mm/4 Inch **Diameter Specimens**

Code: 23-4200

Product Group: Soil Extruders, Accessories for manual and automatic compaction

Adaptor plates will be supplied; extrudes samples from BS Compaction Mould, Proctor Mould 100 mm, Core Cutter and Marshall Mould. Maximum extrusion force 20kn.

#### **Standards**

BS 1377-1

#### **Further Information**

\*\*NOT AVAILABLE FOR SALE IN THE USA\*\*

### **Accessories**

#### **Steel Block**

Code: 45-6463



#### **Alternatives**



38mm Hand Operated Hydraulic Sample Extruder with Trimming Knife 38mm Split Former & Cutting Tool.

Code: 23-4090



**Cbr/Core Cutter Extruder Frame and Hydraulic Jack Extrudes 150mm/6 Inch Diameter Specimens.** 

Code: 23-4250



**Marshall Test 50** 

Code: 45-6810/01



**Marshall Test 50** 

Code: 45-6810/06

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#### DSU Electronic Readout and Control System 220 - 240 V AC 50/60 Hz

Code: 27-1300/01

Product Group: Data Logging with the DSU, Electronic Instrumentation, Electronic Instrumentation, Electronic Instrumentation, Data Logging with the DSU

- Download the full brochure here [/Page/catalogue-download/NTRmZS9UaGUgTkVXIE RTVSBVU0EucGRm]
- · 4 channel automatic control and data-logging unit
- · Automatic, dual-frame control
- Performs CBR, Marshall, Unconfined Compression, Direct and Residual Shear, One-Dimensional Consolidation and Unconsolidated Undrained tests
- $\cdot$  LAN connection software can be running anywhere on your server
- $\cdot$  Never lose data from power fails 2 gigabytes of non-volatile memory
- · Extended warranty

The Data System Unit (DSU) is a versatile instrument designed to accommodate the general logging requirements of geotechnical and materials testing engineers. Its intelligent interface allows the user to work with a range of different sensors.

#### **Further Information**

The DSU has two distinct modes of operation. The first is referred to as DS mode (DataSystem) for operation with ELE International's established DS7 geotechnical testing software.

#### DS MODE

- Up to four one dimensional consolidation tests
- Up to two CBR tests
- One direct/residual shear test
- One triaxial quick un-drained test

#### **DU MODE**

- Up to two Marshall tests
- Up to two CBR tests
- Up to two Unconfined compression tests
- Automatic frame control

#### **OVERVIEW**

• Touch Screen data entry for standalone operation, Marshall/CBR/Quick un-drained

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- Automatic single and dual frame control (with multiplex 50 frame)
- Log memory of 2 gigabytes
- · Non-volatile memory
- Ethernet TCPIP link and serial comms support
- · Market leading signal stability
- Certificate and manual calibration features

Become a member of the ELE International web site, add this new product to a wishlist to receive a quote! Click here [/Login]

This product is now available in the USA and Canada!

#### **Accessories**



Cable, Safety/ID

Code: 27-1300/11



**Dual Frame Comms Cable** 

Code: 27-1300/10



**PC Cable** 

Code: 27-1300/12

#### **Alternatives**



**DSU Electronic Readout and Control System 110 V AC 60** Hz

Code: 27-1300/02

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#### **Marshall Test 50**

Code: 45-6810/01



#### **Marshall Test 50**

Code: 45-6810/06

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#### 50kN S-type Load Cell

Code: 27-1559

Product Group: Load Measurement, Electronic Instrumentation, Force measurement, Electronic

Instrumentation

Maximum working capacity of 50 kN and excitation 10 V ac/dc with an output of 2.7 mV/V nominal. Aluminium alloy and stainless steel construction with IP65 environmental protection.

#### Standards EN 12697-34

#### **Further Information**

\*\*NOT AVAILABLE FOR SALE IN THE USA\*\*

#### **Accessories**



### **Breaking Head (Marshall)**

Code: 45-6850



# S-Type Load Cell 5 kN.for Triaxial Tests. Fitted with 5 Pin Din Plug.

Code: 27-1551

#### **Alternatives**

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# **Breaking Head (Marshall)**

Code: 45-6850



S-Type Load Cell 5 kN.for Triaxial Tests. Fitted with 5 Pin Din Plug.

Code: 27-1551

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# **Compaction Mould**

Code: 45-6310

Product Group: Asphalt Compaction Mould,

Accessories for manual and automatic compaction

Comprising of mould body, baseplate and combined

filling/extraction collar.

#### Standards

EN 12697-30, ASTM D6926, AASHTO T245

#### **Specification**

Construction Machined seamless steel

forming mold; base and collar.

Finish Plated for rust resistance.

4" (101.6 mm) i.d. x 3" (76.2 Dimensions

mm) internal

h. with base.

Net 6 lbs. (2.7 kg). Weight

#### **Alternatives**





# **AutoComp 100-A**

Code: 45-6600/01



# **Compaction Pedestal BS 598**

Code: 45-6410

**Product Group: Manual Compaction** 

Comprising a 300 mm sq  $\times$  25 mm thick steel plate complete with 4 tie rods and securing nuts. A mould clamp and hammer guide are fitted to the plate. The unit is supplied complete with a laminated hardwood block.

# Standards

EN 12697-30

#### **Further Information**

\*\*NOT AVAILABLE FOR SALE IN THE USA\*\*

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# **Compaction Hammer**

Code: 45-6460

Product Group: Manual Compaction, Stability

**Compaction Hammer** 

Satisfies BS 598. The hammer has a 4535 g sliding

weight with a free fall of 457 mm.

#### **Standards**

EN 12697-30, ASTM D6926, AASHTO T245

# **Specification**

 Tamping Face
 3-7/8" (98 mm) diam.

 Hammer
 10 lb. (4.54 kg).

 Drop
 18" (457 mm).

Construction Machined steel; cast aluminum

handle.

Weight Net 16 lbs. (7.2 kg).

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#### **Marshall Test 50**

Code: 45-6810/01

Product Group: Marshall Load Frames

- Geared screwjack and motor drive
- Precise speed
- Internal limit switch for both directions of travel
- Easy to use controls

This bench-mounting mechanical load frame is ruggedly constructed to encompass the strain and loads involved with the test. The unit is compact in size and can be quickly installed on a bench top, requiring only a power point. It has been designed for simple operation, is easy to clean and requires minimum maintenance.

#### Standards

EN 12697-34

#### **Further Information**

\*\*NOT AVAILABLE FOR SALE IN THE USA\*\*

Load frame, 50 kN capacity. Supplied without Breaking Head. For 220 - 240 V AC, 50 Hz, 1 ph.

#### **Accessories**



250 Asphalt Probe

Code: 47-0202/10



30 L Heating Bath with Led Display Cover

Code: 45-6550/01

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# **50kN Clamped Boss Load Ring**

Code: 78-0860



### **50kN S-type Load Cell**

Code: 27-1559



# **Breaking Head (Marshall)**

Code: 45-6850



#### Flow Meter BS/EN

Code: 45-6880

#### **Alternatives**



# **Digital Asphalt Thermometer**

Code: 47-0202

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# **DSU Electronic Readout and Control System 110 V AC 60 Hz**

Code: 27-1300/02



# DSU Electronic Readout and Control System 220 - 240 V AC 50/60 Hz

Code: 27-1300/01



Proctor/Core Cutter Extruder Frame and Hydraulic Jack. Extrudes 100mm/4 Inch Diameter Specimens

Code: 23-4200

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#### Flow Transducer

Code: 45-6820/11

Product Group: Electronic Instrumentation, Electronic

Instrumentation, Electronic Instrumentation

Pre-calibrated, for use with 45-6850 Breaking Head.

#### **Standards**

EN 12697-34

#### **Further Information**

\*\*NOT AVAILABLE FOR SALE IN THE USA\*\*



# **Breaking Head (Marshall)**

Code: 45-6850

Product Group: Accessories for the Marshall test

Complete with gauge disc. Supplied without flow

meter.

### Standards

EN 12697-34

#### **Accessories**



# **250 Asphalt Probe**

Code: 47-0202/10



# 30 L Heating Bath with Led Display Cover

Code: 45-6550/01

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# **50kN S-type Load Cell**

Code: 27-1559

#### **Alternatives**



# **250 Asphalt Probe**

Code: 47-0202/10



# 30 L Heating Bath with Led Display Cover

Code: 45-6550/01



# **50kN S-type Load Cell**

Code: 27-1559

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#### Portable Thermometer 100 ml

Code: 82-5247

Product Group: Portable Dial-type Thermometers

50 mm diameter dial with a 180 mm long stem.

#### **Further Information**

\*\*NOT AVAILABLE FOR SALE IN THE USA\*\*