



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

This wishlist was generated on 27/07/2017, and contains the following Products:

42-4300

150mm Aggregate Crushing Value Apparatus. Supplied Complete with Metal Measure and Tamping Rod.

42-5310/01

Los Angeles Abrasion Machine with CE Safety Cabinet W/ Microswitches. 220-240V 50Hz 1Ph.

42-5300/10

Set of 12 Abrasive Charges (ASTM).

82-5270

Non Hazardous Glass Thermometers -1 - +51°C

82-5245

Portable Thermometer 0 - +250°C

82-7091

Silica Gel

47-0011

Calibrated Spring Balance

47-0012

Tray and Chains

78-5447/01

Electronic Balance - 3600g x 0.01g

81-0200

Aluminium Scoop Small

81-0310

Trowel - Gardeners type

29-5000

Density Spoon.

81-0508

Heat-Resistent Gloves, With Gauntlet

82-7720/01

Vacuum Pump

81-0375

Rubber Tubing

82-2660

Funnel

45-3810/01

Rotatest 1500

45-3803

Filter Discs Pack of 100

46-6100/01

Asphalt Binder Analyser 220-240V 50/60 Hz

82-1020

Volumetric Flask - 250 ml

82-1040

Volumetric Flask - 500 ml

82-1060

Volumetric Flask - 1000 ml

45-3855/01

Reflux Extractor (4000 gram)

45-3857

Filter Paper

45-6750/01

Gyratory Compactor to EN 12697-31, 10, ASTM D6925, SHRP M-002, AASHTO T312, inc. PC 220-240V 50Hz

45-6750/10

100mm Dia mould & platens

45-6750/25

Spacer 100mm to compact 63mm height on 45-6750

45-6710

Specimen Extruder

45-6750/28

Small air compressor for 45-6750

45-6750/12

150mm Dia mould & platens

45-6750/26

Spacer 150mm to compact 63mm height on 45-6750

45-6750/22

150 mm filter papers (pack of 100)

47-0450

PRD Split Mould and Baseplate

47-0455/01

Vibrating Hammer

47-0480

300 mm Shank

82-7031

Paraffin Wax

81-4775

Polythene Bag - Pack of 50

24-9250

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

82-7861

Filter Paper - Fast

82-7171

Sodium Sulphate

82-7401

Standard Sand - 600/300 μ m



150mm Aggregate Crushing Value Apparatus. Supplied Complete with Metal Measure and Tamping Rod.

Code: 42-4300

Product Group: [Aggregate Crushing Value \(ACV\) and Ten Percent Fines Value \(TFV\)](#)

Comprising of 150 mm nominal diameter steel cylinder, plunger and base plate supplied complete with metal measure and tamping rod.

Standards

BS 812-112

Further Information

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

Accessories



Tamping Rod 16mm Dia X 600mm long hemispherical at both ends.

Code: 34-0130

Alternatives



75mm Aggregate Crushing Value Apparatus. Supplied Complete with Metal Measure and Tamping Rod.

Code: 42-4500



Los Angeles Abrasion Machine with CE Safety Cabinet W/ Microswitches. 220-240V 50Hz 1Ph.

Code: [42-5310/01](#)

Product Group: [Los Angeles Abrasion Machine](#)

The machine consists of a closed hollow cylindrical steel drum rotating around its horizontal axis on ball bearing units mounted on a sturdy base framework. Also the full enclosure ensures noise is minimized.

The drum is driven at a speed of between 30 - 33 rpm via an enclosed belt drive arrangement from an electric motor/gearbox unit situated on the base frame. Inside the drum a full length steel shelf is attached, accessed by a dust-proof opening.

The cylinder incorporates a removable internal shelf, one shelf position is provided to meet the requirements of both the ASTM and EN test standards.

Controls are located easily on the right-hand side of the machine at convenient operator height.

Start and stop push buttons and a subtracting revolution counter allows the user to preset the number of revolutions before an automatic stop.

Standards

EN 1097-2, ASTM C131, ASTM C535, NF P18-573

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Accessories

Set of 12 Abrasive Charges (ASTM).

Code: [42-5300/10](#)



Set of 12 Abrasive Charges EN)

Code: [42-5305/10](#)



Alternatives



Los Angeles Abrasion Machine Meets ASTM and European Standards. 220-240V 50Hz 1Ph.

Code: [42-5305/01](#)



Set of 12 Abrasive Charges (ASTM).

Code: [42-5300/10](#)

Product Group: [Los Angeles Abrasion Machine](#), [Los Angeles Abrasion Machine](#)

ASTM Set of 12.

Standards

EN 1097-2, ASTM C131, ASTM C535, AASHTO T96



Non Hazardous Glass Thermometers -1 - +51°C

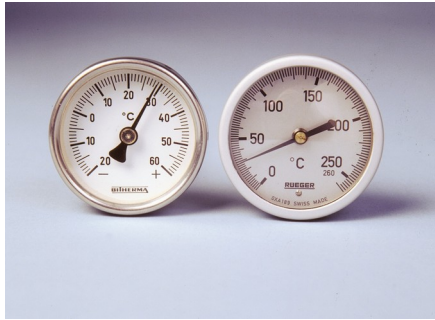
Code: [82-5270](#)

Product Group: [Non Hazardous Glass Thermometers](#)

0.1°C divisions + total immersion

Further Information

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



Portable Thermometer 0 - +250°C

Code: [82-5245](#)

Product Group: [Portable Dial-type Thermometers](#)

25 mm diameter dial with a 100 mm long stem and protective sheath.

Further Information

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



Silica Gel

Code: [82-7091](#)

Product Group: [Chemicals, Test and Reference Materials](#)

Coarse. No hazard. 500 g.

Further Information

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



Calibrated Spring Balance

Code: [47-0011](#)

Product Group: [Rate of Spread of Coated Chippings](#)

Standards

EN 12272-1, BS 598-108

Further Information

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



Tray and Chains

Code: [47-0012](#)

Product Group: [Rate of Spread of Coated Chippings](#)

Comprising one 300 mm square tray and four chains.

Standards

EN 12272-1, BS 598-108

Further Information

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



Electronic Balance - 3600g x 0.01g

Code: [78-5447/01](#)

Product Group: [Electronic Balances](#)

Further Information

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

Specification

Capacity resolution	3600 g x 0.01 g
Pan size	160 x 160 mm
Mains and battery	No
Dimensions (l x w x h)	260 x 170 x 90 mm
Weight	6 kg
Weighing units	g, kg, ct, GN, N, lb, oz, lb:oz, ozt, dwt, T, custom unit
Readability	0.1 g



Aluminium Scoop Small

Code: [81-0200](#)

Product Group: [Scoops and Shovels](#)

82 x 127 x 50 mm, cast aluminium with handle

Further Information

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



Trowel - Gardeners type

Code: [81-0310](#)

Product Group: [Trowels and Floats](#)

Further Information

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



Density Spoon.

Code: [29-5000](#)

Product Group: [Field density tools](#)

For removing soil from the hole



Heat-Resistant Gloves, With Gauntlet

Code: [81-0508](#)

Product Group: [Miscellaneous Laboratory Hardware](#)

Further Information

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



Vacuum Pump

Code: [82-7720/01](#)

Product Group: [Vacuum Pumps](#)

Further Information

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

Specification

Type	Single stage
Pump	Oil filled rotary
Ultimate vacuum	Better than 0.1 mbar
Displacement	42 litres per minute (2.4 m ³ /hour)
Electrical supply	220 – 240 V AC, 50 - 60 Hz, 1 ph
Weight	12.7 kg



Rubber Tubing

Code: [81-0375](#)

Product Group: [Vacuum Pumps, Rubber Tubing](#)

Further Information

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

Specification

Bore	6.5 mm
Wall thickness	5.0 mm
Sold by	Metre



Funnel

Code: [82-2660](#)

Product Group: [Funnels and Flasks](#)

Polythene, 200 mm diameter.

Further Information

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



Rotatest 1500

Code: 45-3810/01

Product Group: Asphalt Centrifuge Extractors

Centrifuge extractor used to determine the quantitative amount of bitumen in bituminous paving mixtures. Variable speed control from 0 to 3600 rpm through the front panel mounted control knob and brake control included for rapid deceleration.

Precision machined aluminium removable cover with integral cup for adding solvent, with sealed cast aluminium housing. Centrifuge extractor used to determine the quantitative amount of bitumen in bituminous paving mixtures. Variable speed control from 0 to 3600 rpm through the front panel mounted control knob and brake control included for rapid deceleration.

Precision machined aluminium removable cover with integral cup for adding solvent, with sealed cast aluminium housing.

Standards

EN 12697-1, ASTM D2172, AASHTO T164

Further Information

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

1500 g capacity. Supplied with 100 Filter Discs. For 220 V AC, 50 - 60 Hz, 1ph.

Accessories



Bowl - 2.5 litre

Code: 81-5020



Desiccator - Non-vacuum

Code: [82-2100](#)



Evaporating Dish - 100 x 40 mm

Code: [82-1970](#)



Filter Discs Pack of 100

Code: [45-3803](#)



Hotplate

Code: [78-2950/01](#)



Measuring Cylinder - Glass 100 ml

Code: [82-0380](#)



Measuring Cylinder - Glass 1000 ml

Code: [82-0500](#)



Sample Tray - 306 x 306 x 38 mm

Code: [81-4020](#)



Silica Gel

Code: [82-7091](#)



Volumetric Flask - 100 ml

Code: [82-1000](#)



Volumetric Flask - 1000 ml

Code: [82-1060](#)

Alternatives



Muffle Furnace

Code: [83-4170/01](#)



Rotatest 3000

Code: [45-3815/01](#)



Filter Discs Pack of 100

Code: [45-3803](#)

Product Group: [Asphalt Centrifuge Extractors](#)

248mm outer diameter with 44mm diameter hole.

Standards

EN 12697-1, ASTM D2172, AASHTO T164

Further Information

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



Asphalt Binder Analyser 220-240V 50/60 Hz

Code: 46-6100/01

Product Group: Ignition Method

Designed to measure the asphalt binder content of hot mix asphalt (HMA) using loss on ignition, in accordance with AASHTO T 308-10, ASTM D6307-10 and BSEN 12697-39:2012.

Further Information

The integral microprocessor controlled weighing and calculation system is configurable to allow variations to the standard test method. Test result reports are available in both printed and software format. The high temperature afterburner minimises the production of noxious waste fumes. Supplied complete with 2 sets of sample baskets.

Features:

- Designed to measure asphalt binder content by loss on ignition
- Avoids health, environmental and waste management issues
- Avoids the expense associated with older solvent extraction methods
- Reduced emissions due to high temperature afterburner
- Controlled via a multi-lingual touchscreen interface
- English, Spanish, French, Chinese, Italian and Russian language display
- Other languages are available to order
- Automatic calculation of final sample weight and binder % result
- Adjustable aggregate correction factor
- Average test times from 20 mins for 6 mm aggregates, to 45 mins for 40 mm aggregates
- Permanent (dot-matrix) printed reports
- USB data output compatible with most spread sheets
- Easy naming, storage and recall of recipes that can be transferred between units
- Simplified menu structure with secure 'Supervisor' and 'Operator' settings
- Metal waste gas extraction pipe
- Factory fitted thermocouple access port, if temperature calibration is to be carried out
- Precise weight measurements, displayed to 0.1g resolution
- Capacity for large sample sizes for more accurate results (max. sample is 4.5kg)

Specification

Max Temp (°C)	750
Dimensions: Internal (HxWxD)	220 x 450 x 350 mm
Dimensions: External (HxWxD)	980 x 600 x 775 mm

Product Sheet

www.ele.com
+44 (0) 01525 249 200



Type
Thermocouple type
Max power (W)

Bench-top
K
8000



Volumetric Flask - 250 ml

Code: [82-1020](#)

Product Group: [Funnels and Flasks](#)

Soda glass, stoppered to BS ISO 1042 Class B.

Further Information

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



Volumetric Flask - 500 ml

Code: [82-1040](#)

Product Group: [Funnels and Flasks](#)

Soda glass, stoppered to BS ISO 1042 Class B.

Further Information

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



Volumetric Flask - 1000 ml

Code: [82-1060](#)

Product Group: [Funnels and Flasks](#)

Soda glass, stoppered to BS ISO 1042 Class B.

Further Information

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



Reflux Extractor (4000 gram)

Code: [45-3855/01](#)

Product Group: [Reflux Extraction](#)

- 4000 gram capacity
- Glass jar for visual observations
- Thermostatically controlled hot plate

The 4000 gram capacity of the Reflux Extractor provides higher accuracy for acceptance testing procedures. This extractor has two cone type screens holding 2000 grams each. The unit consists of two cone screens, water condenser, pyrex reflux jar, a thermostatically controlled hot plate and a supply of filter paper.

Standards

ASTM D2172, AASHTO T164

Further Information

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

For 220 - 240 V AC, 50 - 60 Hz, 1ph.

Accessories



Filter Paper

Code: [45-3857](#)



Filter Paper

Code: [45-3857](#)

Product Group: [Reflux Extraction](#)

Filter papers for 4000 gram capacity reflux extractor.
Coarse-textured at grade 617 and 40 cm diameter.

Standards

ASTM D2172, AASHTO T164

Further Information

Pack of 50.



Gyratory Compactor to EN 12697-31, 10, ASTM D6925, SHRP M-002, AASHTO T312, inc. PC 220-240V 50Hz

Code: 45-6750/01

Product Group: [Gyratory Compaction](#)

One of the best methods of laboratory compaction is considered to be Gyratory for not only the material's assessment of compactibility, but also the production of test samples. The method achieves this by the application of a vertical stress, typically 600 kPa via platens to a mass of asphaltic mixture inside a 100 or 150mm diameter mould. Whilst platens are kept parallel and horizontal, the longitudinal axis of the mould is gyrated at a fixed angle to the vertical axis.

During the test process, the height of the specimen is measured automatically and the mixture density and void content are calculated.

Compaction data is displayed in real time (graphical and tabular) and is available for download to MS Excel(tm) The operator has the ability to choose whether to compact for a certain number of gyrations or until a target mixture density or void content is achieved.

Further Information

Features:

- Full compliance to EN 12697 part 10 and 31
- Configurable to comply with SHRP Superpave
- Both 150mm and 100mm moulds can be tested without any modification
- Automatic mould insertion and retraction
- Cold mix (emulsion) materials can be compacted, with fluid collection facility
- Data acquisition and control via host desktop PC
- Export compaction data to MS Excel(tm)
- UKAS traceable factory calibration
- Can accept moulds up to 300mm in height

Product Specification:

- High stability steel frame with low flex and distortion
- A 95mm pneumatic cylinder
- Safety gates with interlock
- Specimen table
- Accurate stress control via high precision regulator
- High quality inverter for accurate speed control
- Specimen height measurement via linear potentiometer
- Highly durable wheels for ease of movement
- 16bit control and data acquisition
- PC included

Software:

- User-friendly, intuitive and reliable Windows(tm) software
- 2 methods of compaction - no. of gyrations and target density
- User guided step-by-step through compaction
- Real-time display of current height, density and void content
- Software communicates with the gyratory compactor via USB interface
- Utilities are included for transducer check, diagnostic routines and calibration

Specification

Stress	600 kPa nominal, 1000 kPa Max
Mixture types	Wet and Dry
Machine speed	30 rpm
Angle of gyration	0.2 to >2°
Electrical supply	220-240 V 50Hz (16 amp)
Sample sizes	100 and 150 mm dia
Compressed air supply	7-10 bar, 350 L p/m
Dimensions (WxHxL)	790 x 995 x 1920

Accessories



100mm Dia mould & platens

Code: [45-6750/10](#)



100mm Dia mould & platens inc. specimen temperature measurement

Code: [45-6750/23](#)



100mm Dia mould & platens, slotted for emulsion mix

Code: [45-6750/20](#)



100mm Dia split mould

Code: [45-6750/27](#)



100mm filter papers (pack of 100)

Code: [45-6750/24](#)



150 mm filter papers (pack of 100)

Code: [45-6750/22](#)



150mm Dia mould & platens inc. specimen temperature measurement

Code: [45-6750/21](#)



150mm Dia mould & platens

Code: [45-6750/12](#)



150mm Dia mould & platens, slotted for emulsion mix

Code: [45-6750/15](#)



2 deg. angle plate

Code: [45-6750/17](#)



Calibration kit for internal angle lead

Code: [45-6750/11](#)



Display, Shear Force

Code: [45-6750/18](#)



Internal angle measuring device

Code: [45-6750/13](#)



Internal angle measuring device inc. asphalt Hot Mix Simulator (HMS – Hot Mix Simulator)

Code: [45-6750/14](#)



Option for 300mm mould height (cannot be retro-fitted)

Code: [45-6750/16](#)



Small air compressor for 45-6750

Code: [45-6750/28](#)



Spacer 100mm to compact 63mm height on 45-6750

Code: [45-6750/25](#)



Spacer 150mm to compact 63mm height on 45-6750

Code: [45-6750/26](#)



Specimen Extruder

Code: [45-6710](#)



Specimen Temperature Measurement

Code: [45-6750/19](#)



100mm Dia mould & platens

Code: [45-6750/10](#)

Product Group: [Moulds for Gyratory Compactors](#)

34 x 18.5 x 18.5 cms



Spacer 100mm to compact 63mm height on 45-6750

Code: [45-6750/25](#)

Product Group: [Moulds for Gyratory Compactors](#)

34 x 18.5 x 18.5 cms



Specimen Extruder

Code: [45-6710](#)

Product Group: [Accessories for Gyratory Compactor](#)



Small air compressor for 45-6750

Code: [45-6750/28](#)

Product Group: [Accessories for Gyratory Compactor](#)

Compressed air supply 7-10 bar, 350 Litres per minute



150mm Dia mould & platens

Code: [45-6750/12](#)

Product Group: [Moulds for Gyratory Compactors](#)

34 x 18.5 x 18.5 cms



Spacer 150mm to compact 63mm height on 45-6750

Code: [45-6750/26](#)

Product Group: [Moulds for Gyratory Compactors](#)



150 mm filter papers (pack of 100)

Code: [45-6750/22](#)

Product Group: [Moulds for Gyratory Compactors](#)

150 mm x 150 mm



PRD Split Mould and Baseplate

Code: [47-0450](#)

Product Group: [Percentage Refusal Density \(PRD\)](#)

Standards

EN 12697-32, EN 13280-4, BS 598-104

Further Information

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

Accessories



300 mm Shank

Code: [47-0480](#)



Vibrating Hammer

Code: [47-0455/01](#)



Vibrating Hammer

Code: [47-0455/01](#)

Product Group: [Percentage Refusal Density \(PRD\)](#)

Accessory - suitable for compacting asphalt samples.

Standards

EN 12697-32, EN 13280-4, BS 598-104

Further Information

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

Accessories



250 Asphalt Probe

Code: [47-0202/10](#)



300 mm Shank

Code: [47-0480](#)



Cradle

Code: [34-8105](#)



Engineer's Steel Rule

Code: [81-0805](#)



Filter Paper - Medium

Code: [82-7901](#)



Paraffin Wax

Code: [82-7031](#)



Spatula 200 mm

Code: [81-0140](#)



Vernier Caliper (LCD) Range 0 to 200mm X 0.01mm

Code: [81-0590](#)

Alternatives



250 Asphalt Probe

Code: [47-0202/10](#)



300 mm Shank

Code: [47-0480](#)



Cradle

Code: [34-8105](#)



Engineer's Steel Rule

Code: [81-0805](#)



Filter Paper - Medium

Code: [82-7901](#)



Paraffin Wax

Code: [82-7031](#)



Spatula 200 mm

Code: [81-0140](#)



Vernier Caliper (LCD) Range 0 to 200mm X 0.01mm

Code: [81-0590](#)



300 mm Shank

Code: [47-0480](#)

Product Group: [Percentage Refusal Density \(PRD\)](#)

Complete with tamping feet - 102 mm and 146 mm dia.

Standards

EN 12697-32, EN 13280-4, BS 598-104

Further Information

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

Accessories



Vibrating Hammer

Code: [47-0455/01](#)

Alternatives



Vibrating Hammer

Code: [47-0455/01](#)



Paraffin Wax

Code: [82-7031](#)

Product Group: [Chemicals, Test and Reference Materials](#)

No hazard (congealing point approx 49°C). 5 kg block.

Further Information

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

Accessories



Vibrating Hammer

Code: [47-0455/01](#)

Alternatives



Vibrating Hammer

Code: [47-0455/01](#)



Polythene Bag - Pack of 50

Code: [81-4775](#)

Product Group: [Miscellaneous Laboratory Hardware](#)

Further Information

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



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. (5.9â€³).
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](#)



Filter Paper - Fast

Code: [82-7861](#)

Product Group: [Filter Papers \(Box of 100\)](#)

No. 55 x 400 mm diameter.

Further Information

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



Sodium Sulphate

Code: [82-7171](#)

Product Group: [Chemicals, Test and Reference Materials](#)

Anhydrous. No hazard. 3 kg

Further Information

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



Standard Sand - 600/300 µm

Code: [82-7401](#)

Product Group: [Sand Cone 6"](#), Chemicals, Test and Reference Materials

Fraction C. No hazard. 20 kg.

Further Information

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

Accessories



Density Plate for EL29-4300.

Code: [29-4340](#)

Alternatives



Density Plate for EL29-4300.

Code: [29-4340](#)