AGGREGATE TEST EQUIPMENTS

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EN 932-2 | ASTM C702 | BS 812:1, 1377:1, 1924:1

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P. Code	Aperture (mm)	Number of Slots	Weight (kg)	Dimensions (mm)
AG1420/7	7	12	2	130x180x180
AG1420/13	13	12	6	200x250x350
AG1420/15	15	12	6,5	200x290x350
AG1420/19	19	10	11	220x310x400
AG1420/25	25	10	9	250x350x420
AG1420/30	30	10	15	230x420x450
AG1420/38	38	8	16	320x430x570
AG1420/45	45	8	20	320x450x590
AG1420/50	50	8	20	320x500x600
AG1420/64	64	8	32	360x600x600
AG1420/75	75	8	35	370x700x600

LARGE CAPACITY SAMPLE SPLITTERS

EN 932-2 | ASTM C702 | BS 812:1, 1377:1, 1924:1

Product Code

AG1420/LC Large Capacity Sample Splitters

DESCRIPTION

The Large Capacity Sample Splitter is used to reduce large quantities of samples to a manageable size. Constructed of heavy gauge welded steel. The splitter is equipped with 25 channels with a 20 lt. hopper capacity. Single splitter chute provides flexibility in sizes of chute openings. Each chute bar is 12.5 mm (1/2 in.) wide so that adjustment is provided for any increment of 12.5 mm which will divide into the total 610 mm (24 in.) chute width an even number of times.

SAMPLE SPLITTERS

EN 932-2 | ASTM C702 | BS 812:1, 1377:1, 1924:1

DESCRIPTION

Used for dividing aggregates into two equal homogeneous quantity for testing. The Riffle box is manufactured to meet the relevant International standard both in the slot width and number of slots. Electrostatically painted and supplied complete with 3 containers with handles.

LARGE CAPACITY SAMPLE SPLITTERS

EN 932-2 | ASTM C702 | BS 812:1, 1377:1, 1924:1

P. Code	Dimensions(mm)	Weight (kg)
AG1420/LC	740X485X980 mm	50 kg

WHELLBARROW

Geometric Properties

Product Code

G190 WhellBarrow 85 Liter Capacity

DESCRIPTION

Tub in sheet steel. Capacity 85 Litres. Frame in metal tube. One tyred wheel.

P. Code	Sheet Thickness	Weight (kg)
G190	0,90 mm DKP	14 kg

AGGREGATE SCOOP PAN

Geometric Properties

Product Code

G192 Aggregate Scoop Pan

DESCRIPTION

Used for aggregate and soil samples. Welded steel construction with open chute end simplifies transfer or bag loading. Tapered scoop section controls flow. Welded steel construction with open chute simplifies transfer or bag loading. Front swing-down handle folds inside pan to permit criss-cross stacking.

P. Code	Dimensions(mm)	Weight (kg)
G192	700X300X100(h) mm	5 kg

AGGREGATE
GEOMETRIC PROPERTIES

WHELLBARROW

Geometric Properties

AGGREGATE SCOOP PAN

Geometric Properties

AGGREGATE
GEOMETRIC PROPERTIES

FLAKINESS SIEVE SET, BS SERIES

BS 812-105.1

Product Code

AG1190 Flakiness Sieve Set BS consists of 7 sieves
AG1190/1 Flakiness Sieve BS 4.9x30 mm slot size
AG1190/2 Flakiness Sieve BS 7.2x40 mm slot size
AG1190/3 Flakiness Sieve BS 10.2x50 mm slot size
AG1190/4 Flakiness Sieve BS 14.4x60 mm slot size
AG1190/5 Flakiness Sieve BS 19.7x80 mm slot size
AG1190/6 Flakiness Sieve BS 26.3x90 mm slot size
AG1190/7 Flakiness Sieve BS 33.9x100 mm slot size

DESCRIPTION

The dimensions of each sieve comply with the relevant international standards, manufactured from heavy gauge steel sheet. The Flakiness sieve frame is coated with electrostatic paint. The accuracy of the slot size is better than 0.1 mm. Flakiness sieve set consists of 7 sieves. For sample preperation 6.3, 10, 14, 20, 28, 37.5, 50 and 63 mm aperture sizes test sieves.

P. Code	Slot Size (wxl)	Weight (kg)	Dimensions (mm)
AG1190/1	4.9x30 mm	1.5 kg	300x220x80 mm
AG1190/2	7.2x40 mm	1.6 kg	320x240x80 mm
AG1190/3	10.2x50 mm	1.9 kg	300x220x80 mm
AG1190/4	14.4x60 mm	2 kg	360x260x80 mm
AG1190/5	19.7x80 mm	2.2 kg	390x280x80 mm
AG1190/6	26.3x90 mm	2.6 kg	420x300x80 mm
AG1190/7	33.9x100 mm	2.9 kg	470x320x80 mm

FLAKINESS SIEVE SET, EN SERIES

EN 932-2 | ASTM C702 | BS 812:1, 1377:1, 1924:1

Product Code

AG1185 Flakiness Sieve Set EN Series, consists of 13 sieves

DESCRIPTION

Used for the determination of the flakiness index of the aggregate. Consisting of an electrostatically painted frame and 5 mm diameter stainless steel bars with apertures state below.

P. Code	Aperture (mm)	Weight (kg)	Dimensions (mm)
AG1185/1	2,5	3	340x320x80
AG1185/2	3,15	3	340x320x80
AG1185/3	4	3,8	340x320x80
AG1185/4	5	3,8	340x320x80
AG1185/5	6,3	3,7	340x320x80
AG1185/6	8	3,6	340x320x80
AG1185/7	10	3,4	340x320x80
AG1185/8	12,5	3,2	340x320x80
AG1185/9	16	4	340x320x80
AG1185/10	20	3,2	340x320x80
AG1185/11	25	3,2	340x320x80
AG1185/12	31,5	2,9	340x320x80
AG1185/13	40	2,7	340x320x80

SHAPE INDEX CALIPER

EN 933-4 | DIN 4226 | CNR No.95 | NLT 354

Product Code

AG1030 Shape Index Caliper

DESCRIPTION

Used for the determination of the shape factor of aggregates. Measurement range is 200 mm and graduated with 0.05 mm increments.

P. Code	Dimensions(mm)	Weight (kg)
AG1030	450x150x50 mm	1 kg

FLAKINESS (THICKNESS) GAUGE

BS 812-105.1

Product Code

AG1040 Flakiness (Thickness) Gauge

DESCRIPTION

The Flakiness (Thickness) Gauge is used to determine if the aggregate particles are to be considered as flaky, i.e. their thickness is less than 0.6 of their nominal size. The aggregate to be classified is separated into seven sieve fractions from 6,3 to 63 mm. Slot sizes are 4.9 x 30 mm, 7.2 x 40 mm, 10.2 x 50 mm, 14.4 x 60 mm, 19.7 x 80 mm, 26.3 x 90 mm and 33.9 x 100 mm.

LENGTH (ELENGATION) GAUGE

BS 812-105.2

Product Code

AG1050 Length (Elengation) Gauge

DESCRIPTION

The Length (Elongation) Gauge is used for determining the elongation index of aggregates. The particle is elongated when its length is more than 1.8 o the midsize of the sieve fraction. The aggregate to be classified is separated into six sieve fractions from 6.3 to 50 mm and each fraction is examined separately.

P. Code	Dimensions(mm)	Weight (kg)
AG1040	320x130x10 mm	0,6 kg

LENGTH (ELENGATION) GAUGE

BS 812-105.2

P. Code	Dimensions(mm)	Weight (kg)
AG1050	370x70x70 mm	1 kg

SAND EQUIVALENT TEST SET

EN 933–8 | ASTM D2419 | AASHTO T176 | UNI 8520–15 | UNE 83131 | CNR No. 27

Product Code

AG1460/A Sand Equivalent Test Set, ASTM Model
AG1460/E Sand Equivalent Test Set, EN Model

DESCRIPTION

The Sand Equivalent Test Kit is used to determine the fines of aggregates. The Sand Equivalent test set is supplied with four measuring cylinders, two rubber stoppers, measuring can, irrigator tube, siphon assembly with bottle, weighted foot, funnel, graduated rule, 1 liter of stock solution and plastic carrying case.

The Sand Equivalent Test Set is supplied complete with;

- **AG1460/01** Transparent Graduated Acrylic Plastic Measuring Cylinder / 4 pieces for AG1460/A
- **AG1460/02** Transparent Graduated Acrylic Plastic Measuring Cylinder / 4 pieces for AG1460/E
- **AG1460/03** Weighted foot / for AG1460/A
- **AG1460/04** Weighted foot / for AG1460/E
- **AG1460/05** Rubber stoper
- **AG1460/06** Measuring can
- **AG1460/07** Irrigator tube
- **AG1460/08** Siphon assembly with bottle
- **AG1460/09** Sand equivalent stock solution, 1 l bottle
- **AG1460/10** Funnel
- **AG1460/11** Graduated rule, 500 mm
- **AG1460/12** Carrying Case

P. Code	Dimensions(mm)	Weight (kg)
AG1460/A	400x600x200 mm	6 kg
AG1460/A	400x600x200 mm	6 kg

SAND EQUIVALENT TEST SET

EN 933–8 | ASTM D2419 | AASHTO T176 | UNI 7446

Product Code

AG1475/A Sand Equivalent Shaker with Safety Cover, ASTM - 220 V 50/60 Hz
AG1475/E Sand Equivalent Shaker with Safety Cover, EN - 220 V 50/60 Hz
AG1475/A-110 Sand Equivalent Shaker with Safety Cover, 110 V 60 Hz

DESCRIPTION

The AG1475 Sand Equivalent Shaker (With Safety Cabin) is used for the uniform shaking of sand equivalent measuring cylinders, at a specified rate and stroke. On the shaker has a timer and safety cover (conforming with CE directives). The horizontal movement, cycle and shaking time can be adjusted on the shaker to comply with EN or ASTM standards.

Model	ASTM Model	EN Model
Horizontal Movement	203.2 mm ± 1	200 mm ± 10
Cycle	175 ± 2 / min.	180 ± 3 / min.
Dimensions(mm)	700x360x450 mm	
Weight (approx.)	52 kg	
Power	200 W	

METHYLENE BLUE TEST SET

EN 933-9 | NF P94-068 | UNE 83 180 | UNI 8520-15

Product Code

AG1340	Methylene Blue Test Set, 220-240 V 50 Hz
AG1340/01	High Speed Agitator Motor, 400/600 r.p.m
AG1340/02	Stirring Propeller, Ø 70 mm 4 flanks
AG1340/03	Filter Paper, 1 pack (100 pcs.),125 mm dia, 95 g/m2, 0.20 mm thickness
AG1340/04	Methylene Blue, 100 g
AG1340/05	Kaolinite, 500 g
G075/02	Glass Burette, 50 ml x 0.1 ml
G140/02	Burette Holder and Stand
G015/3000	Plastic Beaker, 3000 ml
G070/06	Glass Rod, Ø 8x300 mm

DESCRIPTION

The Methylene Blue Test of fine aggregate is a measure of the amount of potentially harmful fine material present such as clay and organic material. Material passing the No. 200 (75µm) sieve is maintained in dispersion with distilled water by mixing with the Magnetic Stirring Hot Plate. Methylene Blue solution is titrated into the stirred dispersion in increments until a drop of the mixture on fi lter paper shows a blue ring indicating that the sample can absorb no more reagent. The MBV is simply a measure of the amount of reagent absorbed and is proportional to the amount of clay or organic material present. Methylene Blue Reagent solution is light sensitive. The solution shelf life is 4-6 months maximum, when stored in a dark cabinet in foil-wrapped amber bottles.

Methylene blue test set is supplied with;

- High Speed Agitator Motor, 400/600 r.p.m
- Stirring Propeller, Ø 70 mm 4 flanks
- Filter Paper, 1 pack (100 pcs.), 125 mm dia, 95 g/m2, 0.20 mm thickness
- Methylene Blue, 100 g
- Kaolinite, 500 g
- Glass Burette, 50 ml x 0.1 ml
- Burette Holder and Stand
- Plastic Beaker, 3000 ml
- Glass Rod, Ø 8x300 mm

P. Code	Dimensions(mm)	Weight (kg)
AG1340	270x590x600 mm	16 kg

METHYLENE BLUE TEST SET

EN 933-9 | NF P94-068 | UNE 83 180 | UNI 8520-15

LABORATORY JAW CRUSHER

ASTM C289

Product Code

AG1290 Laboratory Jaw Crushers, 380 V 50 Hz

DESCRIPTION

The AG1290 Laboratory Type Jaw Crusher is used in crushing or grinding process in order to obtain small particle size samples that are needed in accordance with the test standards of aggregate, natural stone and similar materials. It can break all materials up to 9 Mohs hardness. Suitable for laboratory use. It has special jaws with heat treated manganese. Jaw opening can be adjusted between 2 mm and 15 mm. Crusher body is hardened steel costruction. Jaw opening is adjustable.

LABORATORY JAW CRUSHER

EN 933-9 | NF P94-068 | UNE 83 180 | UNI 8520-15

Maximum Feed Size	100 x 100; 160 x 170; 200 x 300 mm
In Grain Size	Between 20 to 40 mm
Output Grain Size	0 - 8 mm
Jaws	12 - 14 Mn steel casting eyes and jaw opening can be adjusted
Capacity	250/500 kg / hour depends on the type and size of the material
Dimensions	800x900x860 mm
Weight	280 kg
Power	380 V 50 Hz 1500 W

AGGREGATES IMPACT VALUE APPARATUS

BS 812:112

Product Code

AG1130 Agrega Impact Value (AIV) Apparatus

DESCRIPTION

The Aggregates Impact Value (AIV) Apparatus is used to determine the aggregate impact value which provides a relative measure of the resistance of an aggregate to sudden shock or impact. The counter fitted to the machine automatically records the number of blows delivered to the sample. AIV is made from steel protected against corrosion.

AG1130 is supplied complete with;

- Impact Value Frame with Counter
- Cylindrical Measure, Ø 75 mm,
- Steel Tamping Rod, Ø 16x600 mm

P. Code	Dimensions(mm)	Weight (kg)
AG1130	450x350x850 mm	55 kg

AGGREGATE CRUSHING VALUE APPARATUS

BS 812:110-111

Product Code

AG1110 Aggregate Crushing Value Apparatus Dia 75 mm
AG1120 Aggregate Crushing Value Apparatus Dia 150 mm

DESCRIPTION

The **AG1110** Aggregate Crushing Value (ACV) test set provides a relative measure of the resistance of an aggregate to crushing under a gradually applied compressive load. Used for the 9.52 mm particle sizes aggregates.
The **AG1120** Aggregate Crushing Value (ACV) Test Set provides a relative measure of the resistance of an aggregate to crushing under a gradually applied compressive load. Used for the range 12.7 mm to 9.52 mm particle aggregates.

AG1110 Set is supplied complete with;
AG1110/01 Aggregate Crushing Value Cylinder Ø 150 mm
AG1110/02 Aggregate Crushing Value Base Plate
AG1110/03 Aggregate Crushing Value Plunger
AG1110/04 Aggregate Crushing Value Cylindrical Measure
AG1110/05 Tamping Rod Ø 16x600 mm

TMA-1120 Set is supplied complete with;
AG1120/01 Aggregate Crushing Value Cylinder Ø 75 mm
AG1120/02 Aggregate Crushing Value Base Plate
AG1120/03 Aggregate Crushing Value Plunger
AG1120/04 Aggregate Crushing Value Cylindrical Measure
AG1120/05 Tamping Rod Ø 8x300 mm

AGGREGATE CRUSHING VALUE APPARATUS

BS 812:110-111

AG1110

AG1120

P. Code	Dimensions(mm)	Weight (kg)
AG1110	120X120X350 mm	6 kg
AG1120	250X250X600 mm	30 kg

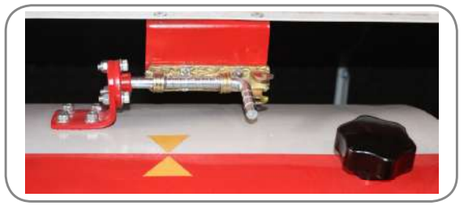
LOS ANGELES ABRASION MACHINE

EN 1097-2, 12697-17, 13450 | ASTM C131, C535 | AASHTO T96

Product Code

AG1260	Los Angeles Abrasion Machine (60 Hz versi on is available upon request)
AG1260/110	Los Angeles Abrasion Machine 110 V 60 Hz
AG1265	Los Angeles Abrasion Machine with Safety Cabinet, 220-240 V 50/60 Hz
AG1265/110	Los Angeles Abrasion Machine with Safety Cabinet, 110 V 60 Hz
AG1270/A	Set of 12 abrasive charges, ASTM
AG1270/E	Set of 12 abrasive charges, EN

AG1265



Drum Position Lock with Safety Switch

AG1260

DESCRIPTION

The Los Angeles abrasion machine is used for determination of the aggregates resistance to fragmentation. The Los Angeles abrasion machine is consists of an electronic control unit and a rolled steel drum having an inside diameter of 711 mm and internal length of 508 mm. The drum is rotate at a speed of 30-33 rpm. The electronic control panel consists of a mains switch, start/stop button and programmable 5 digit revolution counter (with automatic stop at end of cycle). The Los Angeles abrasion machine is supplied complete with abrasion ball.

• 1.6 mm, 10mm, 11.2mm (or 12.5mm) and 14 mm sieves acc. to EN Standard should be ordered separately.

• 1.7 mm(No.12) sieve and other sieves which chance depending the grain size acc. to ASTM and AASHTO standards, should be ordered separately.

AG1265 is supplied with a safety cabinet. The cabinet is lined internally with soundproofing material to reduce sound level conforming to CE directives. The control unit is supplied with on the safety cabinet. The cabinet is equipped with an electric safety device which automatically stops the rotation of the drum when the door is opened, conforming to CE directives.

P. Code	Dimensions(mm)	Weight (kg)
AG1260	1000x940x1000 mm	350 kg
AG1265	1200x1150x1300 mm	450 kg

WIDE WHEEL ABRASION TEST MACHINE

Wide Wheel: EN 1338, 1339, 1340, 1341, 1342, 13748-1,13748-2, 14157
Narrow Wheel: 10545-6, 12808-2

Product Code

AG1500	Wide Wheel Abrasion Testing Machine, 220-240 V 50 Hz
AG1500/110	Wide Wheel Abrasion Testing Machine, 110 V 60 Hz
AG1500/01	Wide Abrasion Wheel, for AG1500
AG1500/02	Abrasive Corundum Sand 25 kg for AG1500 and AG1510
AG1500/03	Calibration Marble for AG1500
AG1510	Narrow Wheel Abrasion Testing Machine, 220-240 V 50 Hz
AG1510/110	Narrow Wheel Abrasion Testing Machine, 110 V 60 Hz
AG1510/01	Narrow Abrasion Wheel, for AG1510
AG1510/02	Mould, EN 12808-2, Polyethylene, 100 ±1x100 ±1x10 ±1 mm, for AG1510

DESCRIPTION

AG1500 Abrasion Testing Machine is designed for determining the resistance to abrasion/wear of natural stones and concrete products used for paving. The abrasion wheel is 70 mm thick and rotates at a speed of 75 rpm. The machine is equipped with a digital counter which stops the machine at the end of a preset number of revolutions.

AG1510 Narrow Wheel Abrasion Testing Machine is designed for determining the resistance to abrasion of unglazed tiles, grouts used for tiles and clay pavers. The abrasion wheel is 10 mm thick.

Abrasive corundum sand, calibration marble (boloneisse) and mould
(for EN 12808-2) should be ordered separately.

WIDE WHEEL ABRASION TEST MACHINE

Wide Wheel: EN 1338, 1339, 1340, 1341, 1342, 13748-1,13748-2, 14157
Narrow Wheel: 10545-6, 12808-2

Dimensions(mm)	640x680x1400 mm
Weight (approx.)	135 kg
Power	370 W

MICRO DEVAL TEST MACHINE

EN 1097-1 | CNR N109 | UNE 83115 | NLT 325 | NF P18-572

Product Code

AG1360/A	Micro Deval Testing Machine, ASTM -220-240 V 50 Hz
AG1360/E	Micro Deval Testing Machine, EN -220-240 V 50 Hz
AG1360/A-110	Micro Deval Testing Machine, ASTM -110 V 60 Hz
AG1360/A-02	Stainless Steel Jar, ASTM, Dia. within 194 and 202 mm and Height within 170 and 177 mm
AG1360/A-03	Micro-Deval Abrasion Charges, ASTM, Ø9,5 mm, 2 pcs. of 6 kg packed
AG1360/E-02	Stainless Steel Jar, EN, Ø 200x154 mm, EN 1097-1
AG1360/E-03	Stainless Steel Jar, EN, Ø 200x400 mm, EN 1097-1
AG1360/E-04	Micro-Deval Abrasion Charges, EN Ø10 mm 25 kg Pack, EN 1097-1

DESCRIPTION

The Micro-Deval Machine is used to determine the abrasion resistance and durability of mineral aggregates.The machine has a sophisticated electronic controller with dedicated sensors to precisely track test time, total revolutions and rpm of jars; total revolutions are used to control test duration and jars stop within a fraction of one revolution at test termination. Stainless steel jars are rotating at a speed of 100 ± 5 r.p.m. The Micro-Deval is supplied complete with control panel fitted with a digital automatic revolutions counter. Also stainless jars and stainless steel spheres are suplied together with machine .

The Micro-Deval ASTM Model

The Micro-Deval ASTM model is constituted of a sturdy steel frame which can receive 2 stainless jars together. The jars are made of stainless steel with diameter and height according to standards (diameter within 194 and

MICRO DEVAL TEST MACHINE

EN 1097-1 | CNR N109 | UNE 83115 | NLT 325 | NF P18-572

202 mm and height within 170 and 177 mm) and are complete with cover and locking device.

The Micro-Deval ASTM model is supplied complete with;

• Stainless Steel Jar, ASTM (Dia. within 194 and 202 mm and Height within 170 and 177 mm), 2 pcs

• Micro-Deval Abrasion Charges, ASTM (Ø9,5 mm, 2 packages of 6 kg)

The Micro-Deval EN Model

The Micro-Deval EN Model is model is constituted of a sturdy steel frame which can receive 4 stainless jars together. The jars are made of stainless steel with diameter and height according to standards (diameter within 200 and height within 154 mm) and are complete with cover and locking device. 1,18 mm sieve should be ordered separately.

The Micro-Deval EN model is supplied complete with;

• Stainless Steel Jar, EN (Dia. 200 mm and Height 154 mm), 4 pcs

• Micro-Deval Abrasion Charges, EN (Ø10 mm 25 kg Pack, EN 1097-1)

Model	ASTM	EN
Stainless Steel Jars are Rotating Speed	100 ± 5 r.p.m.	100 ± 5 r.p.m.
Dimensions	580x350x1000 mm	1100x500x1000 mm
Weight (approx)	115 kg	110 kg
Power	750 W	750 W

BOHME ABRASION TEST MACHINE

EN 1338:2004 | EN 1339 | EN 1340 | EN 13892-3 | EN 14157 | DIN 52108

Product Code

AG1160	Böhme Abrasion Tester, 220-240 V 50 Hz
AG1160/110	Böhme Abrasion Tester, 110 V 60 Hz
AG1162	Abrasive white corundum sand 80 grade. Pack of 25 kg

DESCRIPTION

Böhme Abrasion Tester is used for determining the abrasion resistance of paving stones, concrete slabs, natural rocks, natural stone slabs. Böhme machine adjustable charger used produce a force of 294N ± 3N on a specimen. The machine is equipped with a display control panel that allows the setting of speed and number of cycles. Once the machine is started, it will automatically stop at the end of the set number of cycles programmed on the controls panel. Abrasive Sand should be ordered separately.

AG1160 Böhme Abrasion Tester is basically composed of:

• A grinding wheel of approx 750 mm diameter, a removable testing weight of 30 kg.

• Clamping device for the sample.

• Display control panel

Dimensions	1400x900x1300 mm
Weight	320 kg
Power	220-240 V 50/60 Hz 750 W

SAND ABSORPTION CONE AND TAMPER

BS 812

Product Code

AG1100	Sand Absorption Cone and Tamper Set
AG1100/01	Sand Absorption Cone
AG1100/02	Sand Absorption Tamper Ø 25 mm

DESCRIPTION

The Sand Absorption Cone And Tamper is used in determining the specific gravity and water absorption of fine aggregates smaller than 10 mm. The apparatus is manufactured from plated steel for protection against corrosion.

AG1100 Sand Absorption (Abraham Cone) Set consist of following equipments;

• Absorption Abraham Cone

• Tamping Rod

Abraham Cone Upper Dia	40 mm
Abraham Cone Lower Dia	90 mm
Abraham Cone Height	75 mm
Tamping Rod Base Dia	25 mm
Tamping Rod Height	180 mm
Dimensions	90x90x180 mm
Weight	0,6 kg

SPECIFIC GRAVITY BENCH TEST SET

EN 1097-6, 12390-7

Product Code

C3550	Specific Gravity Test Set
C3550/01	Specific Gravity Frame
C3550/02	Plastic Water Tank 55 Liter
C3550/03	Cradle for Hardened Concrete Specimens
C3550/04	Density Basket, 200 mm dia x 200 mm deep, 3.5 mm mesh

DESCRIPTION

The Specific Gravity Bench Test Set is used for specific gravity determination of aggregates and fresh concretes. The lower part of the frame incorporates a moving platform, which carries the water tank allowing the test specimens to be weighed in both air and water. The balance is not included in the test set and must be ordered separately.

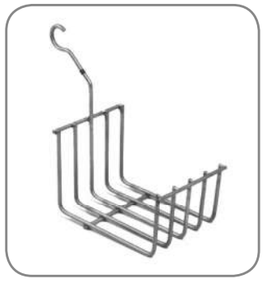
The Specific Gravity Test Set is supplied complete with;

- Specific Gravity Frame
- Plastic Water Tank
- Cradle for Hardened Concrete Specimens
- Density Basket, 200 mm dia x 200 mm deep, 3.5 mm mesh

SPECIFIC GRAVITY BENCH TEST SET

EN 1097-6, 12390-7

C3550/04



C3550/03

C3550/02

Dimensions	600x500x1100 mm
Weight	28 kg

PYKNOMETER (GLASS JAR TYPE)

BS 812:2, 1377-2 | ASTM C128, D854 | AASHTO T84

PYKNOMETER (GLASS JAR TYPE)

BS 812:2, 1377-2 | ASTM C128, D854 | AASHTO T84

P.Code	Dimensions	Weight (approx)
G035/250	Ø110x270 mm	0.5 kg
G035/500	Ø130x270 mm	0.7 kg
G035/1000	Ø150x270 mm	1 kg
G035/2000	Ø180x330 mm	1.25 kg
G035/3000	Ø200x340 mm	1.35 kg
G035/5000	Ø250x400 mm	1.60 kg
G035/DEF	Ø50X270 mm	0.2 kg

MECHANICAL and PHYSICAL PROPERTIES

PYKNOMETER (GLASS JAR TYPE)

BS 812:2, 1377-2 | ASTM C128, D854 | AASHTO T84

Product Code

AG1445	Pyknometer (Glass Jar Type)

DESCRIPTION

The Pyknometer (Glass Jar Type) is used for the determination of the relative density and water absorption for aggregates of 10 mm nominal size and smaller.

Dimensions	100x100x200 mm
Weight	0.5 kg

PYKNOMETER (BOTTLE TYPE)

EN 1097-6

Product Code

G035/250	Pyknometer (Bottle Type) 250 ml
G035/500	Pyknometer (Bottle Type) 500 ml
G035/1000	Pyknometer (Bottle Type) 1000 ml
G035/2000	Pyknometer (Bottle Type) 2000 ml
G035/3000	Pyknometer (Bottle Type) 3000 ml
G035/5000	Pyknometer (Bottle Type) 5000 ml
G035/DEF	Double Edged and Capillary Tube Funnel

DESCRIPTION

Bottle Type Pyknometers are used to determine the specific gravity of aggregates. 250 ml, 500 ml, 1000 ml, 2000 ml, 3000 ml and 5000 ml

AGGREGATE
MECHANICAL and PHYSICAL PROPERTIES

BULK DENSITY MEASURE

TS EN 12350-6 | EN 1097-3 | ASTM C29-C138 | ASS-HTO T19 | BS 812-1881

Product Code

AG1140/1	Bulk Density Measure 1 Liter
AG1140/3	Bulk Density Measure 3 Liter
AG1140/5	Bulk Density Measure 5 Liter
AG1140/7	Bulk Density Measure 7 Liter
AG1140/10	Bulk Density Measure 10 Liter
AG1140/15	Bulk Density Measure 15 Liter
AG1140/20	Bulk Density Measure 20 Liter
AG1140/30	Bulk Density Measure 30 Liter

DESCRIPTION

The Bulk Density Measures are used to determine the weight per cubic metre of freshly mixed and compacted concrete and also the air content of fresh concrete Used also for the determination of loose bulk density and voids of aggregate. Made from heavy steel sheet, protected against corrosion.

P. Code	Volume	Dimensions	Weight (approx)
TMA-1140/1	1 Liter	100x100x130 mm	1.8 kg
TMA-1140/3	3 Liter	150x200x200 mm	4.5 kg
TMA-1140/5	5 Liter	160x160x250 mm	5.5 kg
TMA-1140/7	7 Liter	250x180x250 mm	6.5 kg
TMA-1140/10	10 Liter	200x200x310 mm	10 kg
TMA-1140/15	15 Liter	250x300x320 mm	13 kg
TMA-1140/20	20 Liter	260x260x365 mm	14.5 kg
TMA-1140/30	30 Liter	300x360x420 mm	16 kg

SLAKE DURABILITY

ASTM D4644

Product Code

AG1410	Slake Durability Apparatus, 220 V 50-60 Hz
AG1410/02	Pair of Mesh Drums

DESCRIPTION

The Slake Durability Test Apparatus has been developed to assess the deterioration of rocks over a period of time when subjected to water immersion. The rock samples are dried and then submitted to wear stress inside a drum which is rotated into water. The test is performed different times and the wear is given by the loss in weight of the sample.

This Apparatus consists of a motorized drive unit which is mounted on a baseplate and which can rotate two or four drums at a speed of 20 r.p.m. The tank assemblies are filled with water to a level 20 mm below the drum axis. The test drums are manufactured from 2.00 mm mesh, 140 mm dia. x 100 mm long. A digital timer automatically stops the motor after the preset time. The equipment is supplied complete with two drums with tanks, and it can accept two additional drums.

Drum Mesh No	2 mm
Drum Dia	140 mm
Drum Height	100 mm
Dimensions	1200x160x400 mm
Weight	18kg

POINT LOAD TEST MACHINE

BS 812:2, 1377-2 | ASTM C128, D854 | AASHTO T84

Product Code

AG1390 Digital Point Load Tester

DESCRIPTION

The Point Load Test Machine is used to determine the strength values of a rock and concrete specimen both in-the field and in the laboratory.It consists of a load frame for applying loads up to 50 KN, on which a manual hydraulic jack is mounted. The instrument accepts core specimens up to 4” (101,6 mm) diameter which are loaded by two cone shaped points. A graduated scale indicates the distance between the conical points. The applied load is measured by a pressure.transducer with a digital display unit range 0-50kN,

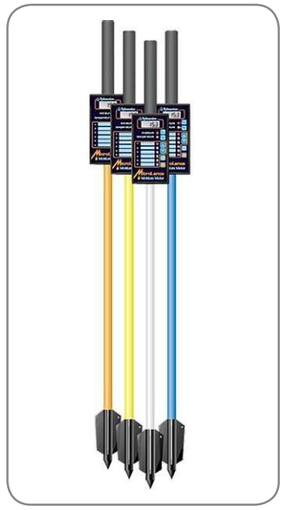
Capacity	5 Tons
Display	Digital readout screen
Carrying Case	Type of land together with a complete set of wooden carrying case
Weight	60 kg
Dimensions	400x700x600 mm
Power	220-240 V 50/60 Hz

MICROLANCE TESTER

BS 812:2, 1377-2 | ASTM C128, D854 | AASHTO T84

Product Code

AG1600 Microlance Instant Moisture & Temperature Tester



DESCRIPTION

Microlance Instant Moisture and Temperature Tester is used for the instant on-site determination of moisture and temperature of sands, aggregates, building materials, minerals and mixes up to max. dia of 10 mm by simply inserting the crucible tip.

The instrument is taking moisture readings up to 1 meter depth by simply inserting the lance into the test material. Instant readings are monitored on the digital display and the built-in computer allows the user to monitor a wide range of materials and water contents.

Specification	Moisture	Temperature
Range	0-25%	-20 to 60 °C
Resolution	0.1%	0.1 °C
Accuracy	better than 0.5%	better than 0.5°C
Measuring Depth	1000 mm	
Measurement Response	6 (User Configurable)	
Dimensions	12x12x120 cm	
Weight	1500 g	
Power	4x1.5 V AA Alkaline Cells	

SKID RESISTANCE AND FRICTION TESTER

ASTM E303, BS EN 1097-8, BS 812 Pt 114

Product Code

R7050	Skid Resistance and Friction Tester
R7050/02	Mounted Rubber Slider for Polished Stone Value Test (for laboratory use), for R7050
R7050/03	Metal Base Plate for Polished Stone Value Specimen Clamping, for R7050
R7050/04	Metal Base Plate for Surface Friction Properties, for R7050 (For Natural Stones and Concrete Paving, Blocks)

DESCRIPTION

The R7050 Skid Tester is a standard analogue device, results being obtained through a pointer and two sets of scales. This portable instrument is designed and constructed to the requirements of British Standard BS EN 1097-8:2000 and also incorporates all other major International Standards, governing the use of Pendulum type Testers. The Pendulum can be used to give a direct reading measurement of the following tests and/or combination of tests:

1. For the testing of slip resistance of floors sports surfaces and walkways (uses main scale). For this measurement a special Four S, (Standard Simulated Shoe Sole), Slider, is used. BS 7976-1:2002 Pendulum testers Scope for use in determining the slip/skid resistance of surfaces
2. The friction between a skidding tyre and a wet road surface, Readings obtained give a Skid Resistance Value, (SRV), of the road surface, uses main scale and TRL slider).
3. For the determination of Skid resistance of road marking materials EN 1436:1997 (uses main scale).
4. In the laboratory on prepared aggregate samples the instrument will yield the Polished Stone Value (PSV). (uses laboratory scale and PSV slider) All Testmak instruments are British made and hand crafted from UK sourced materials.

During the course of manufacture every instrument is subjected to a stringent 42-point quality inspection check. As with any scientific measuring equipment it is important for it to be calibrated. Calibration of all Testmak Pendu-

SKID RESISTANCE AND FRICTION TESTER

ASTM E303, BS EN 1097-8, BS 812 Pt 114

lum type instruments is carried out “in house” and we are accredited to ISO 9001:2000 registered with ISOQAR for the “In house setting testing and calibration of Skid Resistance Testers”.

Calibration is included in the price of the instrument !

British Standards vs. all other International Standards

The Testmak Pendulum is built to BS EN 1097-8:2000 (formerly BS 812 part 114). All other International Standards, including ASTM E 303-93, being subsequently derived from it. Differences if any being the method of employment of the instrument and types of slider according to the surfaces being tested. There is no difference to the construction and specification of the instrument. Should confirmation regarding this be required please provide us with a copy of the Standard you would be working to.

Testmak Pendulum Skid resistance Tester to BS EN 10978:2000, and complete with:

- Instrument carrying case
- Tool roll with tools
- Folding Stool
- Water bottle spray trigger action type
- Six TRL sliders for highway surface Testing
- Other sliders type CEN sliders available in lieu of the above depending upon the specification in the Standard required
- Thermometer -10 to + 50 Deg C graduations
- Spreader Plates for Soft Verges
- Perspex setting gauge

SKID RESISTANCE AND FRICTION TESTER

ASTM E303, BS EN 1097-8, BS 812 Pt 114

- Operation and Instruction Manual (In English)
- Calibration Certificate
- Rubber Hardness Certificate

Calibration Certificates:

Calibration and Calibration Certificates are included in the price of the instrument.

Instrument Carrying/Storage

Case-Specification:

Case construction: a lightweight fabricated carcass with hinged lid, comprising 6mm thick durable polypropylene panels giving a good combination of maximum strength to weight ratio, strengthened and protected by an outer black powder coated aluminium, securely fastened by rivets.

Furniture:

All mild steel fittings finished in black powder coat and nylon for areas that require extra corrosion protection. Catches are butterfly type, recessed and padlockable (padlocks not supplied). Carry handles are also recessed with sprung grips for compact ability.

Interior:

A special CNC machined LD18 plastazote foam insert is fitted to accommodate the instrument and all .

Optional Accessories:

Additional Sliders if required.

Sliders and Slider Rubbers:

All sliders and slider rubbers are issued with a rubber hardness certificate.

SKID RESISTANCE AND FRICTION TESTER

ASTM E303, BS EN 1097-8, BS 812 Pt 114

Dimensions	800x800x400 mm (case)
Weight	35 kg

SPEEDY MOISTURE TESTER

BS 812-109

Product Code

AG1400 Speedy Moisture Test Device

DESCRIPTION

The Speedy Moisture Device is field conditions dust, pulp mixture and the soil, sand, clay, aggregate and other granular materials quickly and accurately detect moisture content. Moisture within the sample, as a result of reaction with calcium carbide acetlyene gas occurs.The resulting pressure caused by gas, dial indicator is determined as the percent moisture content. Within a few minutes into the issue determines the moisture content of the sample. Precision Scale, measuring spoons and cups, calibration kit, 1 box of calcium carbide reagent, cleaning brush, wooden enclosure with a complete set as.

- 20 cup capacity
- Humidity Range: 0 - 20%
- Net Weight: 8 Kg

Dimensions (Case)	510x380x200 mm
Weight	9 kg

MOISTURE DETERMINATION BALANCE

BS 812-109

Product Code

G260/3 Moisture Determination Balance, 3 kg
G260/6 Moisture Determination Balance, 6 kg
G260/10 Moisture Determination Balance, 10 kg
G260/20 Moisture Determination Balance, 20 kg
G260/30 Moisture Determination Balance, 30 kg

DESCRIPTION

The The Moisture determination balance is used used for to determine the moisture content of relatively small samples of various substances.

MOISTURE ANALYZERS BALANSECES			
MODEL	**CAPACITY**	**READABILITY**	**PAN SIZE**
G260/3	3 kg	0.001 g	195*195 mm
G260/6	6 kg	0.001 g	195*195 mm
G260/10	10 kg	0.001 g	195*195 mm
G260/20	20 kg	0.001 g	195*195 mm
G260/30	30 kg	0.001 g	300*300 mm

DOUBLE CONE BLENDER

Determation of Resistance

Product Code

AG1620 Double Cone Blender, 30 Liter Capacity

DESCRIPTION

The Double Cone Blender is an efficient and versatile machine for mixing dry powder and granules homogeneously. All the contact parts made out of stainless steel of required grade by customer. Two third of the volume of the Cone Blender is filled to ensure proper mixing. It can be used for Pharmaceutical, Food, Chemical and Cosmetic products etc.

Salient Features:
The conical shape at both ends enables uniform mixing and easy discharge.
All contact parts are made out of stainless 304 or 316 quality material, as required by customer.
Suitable size of butter fly valve at one end of the cone provided for material discharge & hole with openable cover provided at other end of the cone for material charging & cleaning.
One shaft with 04 nos. of fixed baffles with mirror polished provided inside the cone.
Cone will be mirror polished from the inside & outside & structure will be matt polished.
All moving parts covered with SS304 covers.
Safety guards made from SS304 pipes provided in front of the m/c with limit switch.
The upper inlet is used for material feeding and material is concentrated and removed at the lower outlet.
The mixing barrel can be tilted freely at the angle of degrees for discharging and cleaning purpose.
The automatic stopping device can be set within the range of 0-60 minutes for automatic stopping.
Cleaning the machine is convenient and fast without adhesion.
It can be used for Pharmaceutical, Food, Chemical and Cosmetic products etc.
Suitable for even mixing of plastic powders, plastic pigments, foods, creams and pepper. As per customer requirement machine will be provided with left side drive or with right side drive.
The conical shape at both ends enables uniform mixing and easy discharge.
Worm reduction gear use for speed reduction.
Food grade rubber gasket will be used on both end of cone as well as in butterfly valve.
Safety guards provided with limit switch to not start the machine when safety guards are not in proper position.

DOUBLE CONE BLENDER

Determation of Resistance

P. Code	AG1620
Gross Volume	45 Litres
Working Volume	30 Litres
Motor	0,5 Hp
Size of Gear Box	1 3/4”
Size of Irish Valve	6”
Dimensions(mm)	1060x450x970 mm
Weight	170 kg

ORGANIC IMPURITIES TEST SET

ASTM C40 | ASHTO T2 | EN 1744-1

Product Code

AG1440 Organic Impurities Test Set Standards

DESCRIPTION

The The Organic Impurities Set is used for the determination of the organic impurities in soils and fine aggregates.
The Organic Impurities Test Set is supplied complete with:
• 500ml Screw Cap Test Bottle
• Colour standard chart Organic Impurities in Soils Chart with 5 glass reference scales.
• Sodium Hydroxide, pack of 1000 g

Dimensions	200x200x150 mm
Weight	2 kg

QUANTAB CHLORIDE TITRATOR

Chemical Properties

Product Code

G570 Quantab Chloride Titrator Type 1175, 40 Strips
G575 Quantab Chloride Titrator Type 1176, 40 Strips

DESCRIPTION

The Quantab Chloride Titrators are used for quick determination of water soluble chloride salts present in fine aggregates and soils.

P.Code	G570	G570
Range	0.005% to 0.1% NaCl	0.05% to 1% NaCl
Dimensions	75x75x120 mm	
Weight	0.1 kg	

DRYING SHRINKAGE

EN 1367-4 | UNI 8520-22

Product Code

AG1675 Three Gang Prism Shrinkage Mould 50x50x200 mm
AG1675/02 Steel Insert for AG1675, 12 pcs.
AG1675/03 Reference Rod 205 mm Long with Convex Hemispherical End
M2650 Two Gang Prism Shrinkage Mould 25x25x285 mm
M2650/02 Steel Insert for End M2650, 12 pcs.
M2650/04 Reference Rod 305 mm with Convex Hemispherical End

DESCRIPTION

The Two and Three Gang Shrinkage Moulds are used for the determination of the effect of aggregates on the drying, shrinkage and length change of hardened cement paste, concrete and mortar.
The Two Gang Shrinkage Mould is also used for the determination of the potential alkali reactivity of cement-aggregate combinations (mortar-bar method) according to ASTM standards. Reference rod should be ordered separately.

LENGTH COMPARATORS

EN 1367–4, 12617–4, 12808-4 | ASTM C151, C157, C227, C311, C341, C342, C441, C452, C490, C531, C596, C806, C878, C1260 | BS 1881:5, 6073

Product Code

M2590 Digital Length Comparator
M2595 Length Comparator with Heidenhain Length Measuring Sensor 220-240 V 50-60 Hz

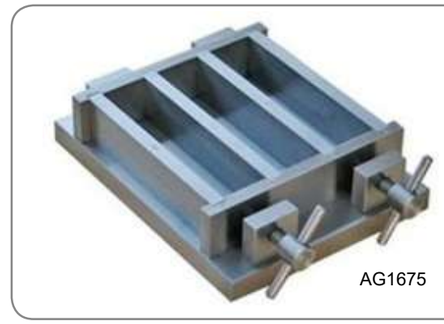
DESCRIPTION

Length Comparators are used to determine the length changes on different type of cement prisms. The set consists of a length measuring frame with measuring apparatus attached to it. There are 2 models available; M2590 is with 0.001 mm x 12.7 mm digital dial gauge and M2595 is with special 0.0001 mm x 30 mm transducer and readout unit.

DRYING SHRINKAGE

EN 1367-4 | UNI 8520-22

M2650



AG1675

P.Code	AG1675	M2650
Dimensions	330x220x70 mm	330x190x70 mm
Weight	15 kg	4 kg

P.Code	M2590	M2595
Dimensions	180x180x410 mm	250x250x650 mm
Weight	6 kg	8 kg

AGGREGATE

ALCALI AGREGATE REACTION BATH

CANADA CSA-A23.2-25A; For Moulds: ASTM C227, C490, C1260

Product Code

AG1770 Alkali Aggregate Reaction Bath, 220 V 50 Hz
AG1772 Alkali Specimens Can, stainless steel, with an hanger which can hold 3 pcs. 25x25x285 mm specimens.

DESCRIPTION

Alkali – Silica reaction bath is used to keep 25x25x285 mm samples in NaOH (Sodium Hydroxide) or in any other solution at a specified temperature. The temperature can be adjusted between ambient to 100°C by using the digital controller with 1°C accuracy. The bath is completely made of stainless steel and has glass cover and a chamber with a capacity of holding 36 samples.
Samples are placed on a special rack made of polyamide where each sample stays independent from each other in a vertical position. The bath is also equipped with an electronic water level indicator which gives an alarm when the water level is lower than required.

Dimensions	570x1050x850 mm
Weight	75 kg
Power	2000 W

FREEZING AND THAWING CHAMBER

Chemical Properties

Product Code

E9800 Freezing and Thawing Chamber,220-240V 50Hz

DESCRIPTION

Used for the determination of resistance to freezing and thawing by providing freezing - thawing in air. Time can be adjusted to 999 minutes for each step of the program. The temperature range of the cabinet is -25°C to +60°C.
The cabinet provides heating from -25°C to +25°C in 60 minutes. The distribution of temperature in the cabinet is performed using the integral fan.
Software for data transfer to a computer is supplied complete with the cabinet, and data can be monitored during the tests. Data can be converted to an excel report or to a graph.
The condenser of the cabinet is fitted with an air cooled hermetic cooler. The gas used for the cooler does not include CFC's.
The control unit is electronic and equipped with digital display with 0.1°C temperature resolution. The temperature distribution accuracy in the cabinet is not higher than 2°C.

Capacity	285 Liters
Internal Dimension	490x530x1100 mm
External Dimension	700x870x1950 mm
Weight	240 kg
Power	1800 W

ULTRASONIC CLEANSING BATHS

Chemical Properties

Product Code

E9500/A04 Ultrasonic Cleansing Bath, Analog, 4 Liter
E9500/D04 Ultrasonic Cleansing Bath, Digital, 4 Liter
E9500/A09 Ultrasonic Cleansing Bath, Analog, 9 Liter
E9500/D09 Ultrasonic Cleansing Bath, Digital, 9 Liter
E9500/A12 Ultrasonic Cleansing Bath, Analog, 12 Liter
E9500/D12 Ultrasonic Cleansing Bath, Digital, 12 Liter
E9500/A21 Ultrasonic Cleansing Bath, Analog, 21 Liter
E9500/D21 Ultrasonic Cleansing Bath, Digital, 21 Liter
E9500/A28 Ultrasonic Cleansing Bath, Analog, 28 Liter
E9500/D28 Ultrasonic Cleansing Bath, Digital, 28 Liter

DESCRIPTION

Ultrasonic Cleansing Apparatus is used for efficient and safe cleaning of sieves of diameters up to 235 mm, especially suitable for fine mesh sieves which could be damaged using ordinary cleaning methods. Manufactured from stainless steel. Washing time can be adjusted up to 30 minutes with the timer. The heating element automatically shuts down for safety in case of insufficient water level.

GENERAL FEATURES

- Stainless steel body and is produced by the boiler.
- High performance piezoelectric crystals made of ultrasonic energy converters are used.
- Ultrasonic runs in the timer control.
- Resistance runs in thermostat control.
- Low liquid level heater off automatically.

ULTRASONIC CLEANSING BATHS

Chemical Properties

Technical Specifications					
Capacity	4 Liters	9 Liters	12 Liters	21 Liters	28 Liters
Cleaning Frequency	28 kHz				
Temperature	0-90 °C, Adjustable				
Heater Power	225 W	450 W	600 W	1000 W	1200 W
Timer	0-30 minutes				
Ultrasonic Power	600 W	600 W	600 W	600 W	600 W
Basket Dimensions	240x137x150 mm	300x240x150 mm	300x240x200 mm	505x300x150 mm	505x300x200 mm
Ext. Dimensions	266x162x320 mm	325x265x370 mm	325x265x370 mm	530x300x200 mm	530x325x420 mm
Weight (approx.)	6 kg	10 kg	13 kg	24 kg	28 kg

LABORATORY DRYING OVENS

TS 1900 | TSE EN 932-5, 1097-5 | ASTM C127,C136

LABORATORY DRYING OVENS

TS 1900 | TSE EN 932-5, 1097-5 | ASTM C127,C136

LABORATORY DRYING OVENS

TS 1900 | TSE EN 932-5, 1097-5 | ASTM C127,C136

Product Code

AG1300/N55	Laboratory Drying Oven 55 Liters Capacity, Natural Convection - 220 V 50/60 Hz
AG1300/F55	Laboratory Drying Oven 55 Liters Capacity, Forced Convection - 220 V 50/60 Hz
AG1300/N120	Laboratory Drying Oven 120 Liters Capacity, Natural Convection - 220 V 50/60 Hz
AG1300/F120	Laboratory Drying Oven 120 Liters Capacity, Forced Convection - 220 V 50/60 Hz
AG1300/N250	Laboratory Drying Oven 250 Liters Capacity, Natural Convection - 220 V 50/60 Hz
AG1300/F250	Laboratory Drying Oven 250 Liters Capacity, Forced Convection - 220 V 50/60 Hz
AG1300/N500	Laboratory Drying Oven 500 Liters Capacity, Natural Convection - 380 V 50 Hz
AG1300/F500	Laboratory Drying Oven 500 Liters Capacity, Forced Convection - 380 V 50 Hz
AG1300/N750	Laboratory Drying Oven 750 Liters Capacity, Natural Convection - 380 V 50 Hz
AG1300/F750	Laboratory Drying Oven 750 Liters Capacity, Forced Convection - 380 V 50 Hz

DESCRIPTION

The Testmak Laboratory Ovens have been designed for drying asphalt, soil, rock, concrete, aggregate or similar materials. From ambient to 250°C temperature range with a precision of ±2 ºC to ±4 ºC . The interior is manufactured from stainless steel and the exterior is robustly constructed from sheet steel finished in powder coated paint. Uniform heat distribution and provide very good temperature control for stable temperatures.

PID microprocessor control system allows the recirculation system, precise and stable temperature is obtained. Easy to use, it has a digital control panel. Several internal cell device made of stainless steel resistant to many chemicals. Smooth surfaces allow easy cleaning.

Strong isolation; efficient heating provides good temperature distribution and stability. With strong insulation, the energy consumption is also reduced and the external body temperature.

With the door firmly closed cell seals is reduced heat losses.

The main order of the control system could result in failure of the complete exterior of the situation was brought under control by an independent safety thermostat. All models have adjustable ventilation flap is fitted as standard.

There are 1 dk.- between 99.99 hours and work indefinitely in the dry air sterilizers feature.

Natural Convection Model

Natural convection ovens rely on temperature differences within the oven to transfer heat to samples. They are used for drying applications requiring a gentle airflow in baking, conditioning, curing, pre-heating, and aging. Natural convection ovens are ideal for sterilization, drying, and thermal storage tasks that do not require high drying

rates or special time parameters. Look for safety features that prevent overheating, excellent temperature uniformity, fast heat up and recovery times. Additional features that are nice to have are viewing windows, adjustable shelves, door alarms, lockable doors, stoving and curing options and moisture extraction options.

Forced Convection Model

Forced air convection ovens are built with a fan inside the wall of the oven which forces the hot air in the oven to circulate throughout it. The forced air circulation system provides both exceptional temperature uniformity and rapid heat recovery. They usually operate at temperatures in a range from ambient to a maximum of between 200 and 300 degrees Celsius. Forced-air laboratory ovens are often used in procedures involving cultures and samples when accurately controlled uniform heating is required. Choose from tabletop, undercounter or upright depending on lab space available. Look for convenient features such as adjustable air intake and exhaust vents, sliding window panel covers and adjustable shelves and safety features such as independent overtemperature protection and isolated heating elements.

Internal Dimensions	AG1300/55	AG1300/120	AG1300/250	AG1300/500	AG1300/750
Volume (Available)	55 Liters	120 Liters	250 Liters	500 Liters	750 Liters
Internal Dimensions	38x38x38 cm	50x48x50 cm	55x49x89 cm	90x75x75 cm	120x60x100 cm
External Dimensions	55x61x71 cm	65x70x82 cm	81x69x108 cm	125x76x110 cm	134x82x130 cm
Temperature Range	Ambient Temperature +5 C / C to +250˚				
Control System	Programmable PID Microprocessor Control System				
Temperature Difference (100 °C - 150 °C)	C ± 2˚			± 4 ˚ C	
Temperature Accuracy	C ± 1˚			C ± 1˚	
Timer	1 hour + 99.9 dak.- Indefinite Studies				
Safety Thermostat	Gas expansion thermostat (50 C / 300˚C)				
Shelves Total (standard / max)	2/6 pcs	2/6 pcs	3/6 pcs	4/6 pcs	5/6 pcs
Inner Surface Structure	Stainless steel				
Outer Surface Structure	Electrostatic Powder Coated Steel				
Weight (approx)	40 kg	55 kg	75 kg	115 kg	155 kg
Power	1500 W	1750 W	3500 W	5000 W	7000 W

HIGH CAPACITY SCREEN SHAKER

EN 1339, 1367-1 | TS 2824

Product Code

AG1220	High Capacity Screen Shaker, 220-240 V 50 Hz
AG1220/110	High Capacity Screen Shaker, 110 V 60 Hz
AG1220S	Screen Trays for High Capacity Screen Shaker

DESCRIPTION

High Capacity Screen Shaker is designed for sieving considerable quantities of any material. The screen shaker accepts up to 30 litres (60 ÷ 70 Kg) of sample. Sturdy made, the machine can hold six screen trays and dust pan. Supplied complete with dust pan, but “without” screen trays to be ordered separately. Provided of timer 0-60 minutes.
The AG1220S Screen Trays ASTM E11 Standards and Woven Wire Cloth

SCREEN TRAYS

P. Code	Aperture mm (in)	Weight (kg)	Dimensions
AG1220S/040	4 mm (No. 5 in)	7 kg	457x660x75 mm
AG1220S/0475	4.75 mm (No. 4 in)	7 kg	457x660x75 mm
AG1220S/056	5.6 mm (No. 3 ½ in	7 kg	457x660x75 mm
AG1220S/063	6.3 mm (¼ in)	7 kg	457x660x75 mm
AG1220S/080	8 mm (5/16 in)	7 kg	457x660x75 mm
AG1220S/095	9.5 mm (3/8 in)	7 kg	457x660x75 mm
AG1220S/0112	11.2 mm (7/16 in)	7 kg	457x660x75 mm
AG1220S/0125	12.5 mm (½ in)	7 kg	457x660x75 mm
AG1220S/160	16 mm (5/8 in)	7 kg	457x660x75 mm
AG1220S/190	19 mm (¾ in)	7 kg	457x660x75 mm
AG1220S/224	22.4 mm (7/8 in)	7 kg	457x660x75 mm
AG1220S/250	25 mm (1 in)	7 kg	457x660x75 mm
AG1220S/315	31.5 mm (1 ¼ in)	7 kg	457x660x75 mm
AG1220S/375	37.5 mm (1 ½ in)	7 kg	457x660x75 mm
AG1220S/450	45 mm (1 ¾ in)	7 kg	457x660x75 mm
AG1220S/500	50 mm (2 in)	7 kg	457x660x75 mm
AG1220S/630	63 mm (2 ½ in)	7 kg	457x660x75 mm
AG1220S/750	75 mm (3 in)	7 kg	457x660x75 mm
AG1220S/900	90 mm (3 ½ in)	7 kg	457x660x75 mm
AG1220S/1000	100 mm (4 in)	7 kg	457x660x75 mm

HIGH CAPACITY SCREEN SHAKER

EN 1339, 1367-1 | TS 2824

Capacity	30 Liters
Sieve Sizes Accepted	Screen tray sieves 457mm wide x 660mm long x 75mm deep
Maximum No. of Trays	5 trays & 1 dust pan
Rating	750 W
Power Supply	220-240V 50/60 Hz 1ph
Dimensions	585x790x850 mm
Weight	180 kg

SIEVE SHAKERS WITH FREQUENCY

EN 932-5 | ISO 565, 3310-1, 3310-2 | ASTM E11, 323 | BS 410-1, 410-2

Product Code

AG1170	Sieve Shaker with Frequency Adjustment, 220 V 50-60 Hz
AG1170/110	Sieve Shaker with Frequency Adjustment, 110 V 60 Hz
AG1172	Motorised Sieve Shaker, 220 V 50-60 Hz
AG1172/110	Motorised Sieve Shaker, 110 V 60 Hz

AG1170

DESCRIPTION

The Testmak AG1170 Sieve Shaker is fitted with a very efficient clamping device that ensures sieves are held firmly without over-tightening and allows them to be quickly removed and replaced. The shaker has frequency adjustment and fitted with a digital timer which can be preset to any duration up to 60 minutes.
The Sieve shaker has been specially designed to operate with heavy samples without loss of performance. It is equipped with a dynamic power source which ensures the right vibration is imparted to the sieves and sample for fast, accurate and reproducible tests. The vertical movement is fixed to ensure the sample spends maximum time on the sieve surface. The unique vibratory action also helps keep the apertures clear and free from binding.

SIEVE SHAKERS MOTORISED

EN 932-5 | ISO 565, 3310-1, 3310-2 | ASTM E11, 323 | BS 410-1, 410-2

The AG1172 Testmak Motorised Sieve Shakers impart a circular motion to the material being sieved so that it makes a slow progression over the surface of the sieve. The Sieve Shaker is equipped with a dynamic power source which ensures the right vibration is imparted to the sieves and sample for fast, accurate and reproducible tests. The Sieve Shakers are fitted with a very efficient clamping device that ensures sieves are held firmly without over-tightening and allows them to be quickly removed and replaced. The timer can be preset for any duration up to 60 minutes.

Sieve Capacity (for 200 and 203 mm)	10 pieces + pan and cover
Sieve Capacity (for 300 and 315 mm)	7 pieces + pan and cover
Dimensions (Case)	400x560x110 mm
Weight (approx.)	65 kg
Power	180 W

AG1172

LABORATORY TEST SIEVES ISO STANDARDS

ISO 3310-1, 3310-2, 565 | EN 933-2

ISO 3310-1 Woven Wire Cloth Sieves		
Aperture Size	Ø 200 mm x 50 mm	Ø 300 mm x 75 mm
125 mm	AG2WCI1250	AG3WCI1250
100 mm (4”)	AG2WCI1000	AG3WCI1000
90 mm (3 ½”)	AG2WCI0900	AG3WCI0900
80 mm	AG2WCI0800	AG3WCI0800
75 mm (3”)	AG2WCI0750	AG3WCI0750
63 mm (2 ½”)	AG2WCI0630	AG3WCI0630
56 mm	AG2WCI0560	AG3WCI0560
53 mm (2.12”)	AG2WCI0530	AG3WCI0530
50 mm (2”)	AG2WCI0500	AG3WCI0500
45 mm (1 ¾	AG2WCI0450	AG3WCI0450
40 mm	AG2WCI0400	AG3WCI0400
37.5 mm (1-½”)	AG2WCI0375	AG3WCI0375
31.5 mm (1 ¼”)	AG2WCI0315	AG3WCI0315
26.5 mm (1.06”)	AG2WCI0265	AG3WCI0265
25 mm (1”)	AG2WCI0250	AG3WCI0250
22.4 mm (7/8”)	AG2WCI0224	AG3WCI0224
20 mm	AG2WCI0220	AG3WCI0220
19 mm (¾”)	AG2WCI0190	AG3WCI0190
16 mm (5/8”)	AG2WCI0160	AG3WCI0160
13.2 mm (.530”)	AG2WCI0132	AG3WCI0132
12.5 mm (½”)	AG2WCI0125	AG3WCI0125
11.2 mm (7/16”)	AG2WCI0112	AG3WCI0112
10 mm	AG2WCI0100	AG3WCI0100
9.5 mm (3/8”)	AG2WCI0095	AG3WCI0095
8 mm (5/16”)	AG2WCI0080	AG3WCI0080
6.7 mm (.265”)	AG2WCI0067	AG3WCI0067
6.3 mm (¼”)	AG2WCI0063	AG3WCI0063
5.6 mm (No. 3 ½)	AG2WCI0056	AG3WCI0056
5 mm	AG2WCI0050	AG3WCI0050
4.75 mm (No.4)	AG2WCI0047	AG3WCI0047
4 mm (No.5)	AG2WCI0040	AG3WCI0040
3.35 mm (No. 6)	AG2WFI0335	AG3WFI0335
3.15 mm	AG2WFI0315	AG3WFI0315
2.8 mm (No. 7)	AG2WFI0028	AG3WFI0028
2.5 mm	AG2WFI0025	AG3WFI0025
2.36 mm (No.8)	AG2WFI0236	AG3WFI0236

LABORATORY TEST SIEVES ISO STANDARDS

ISO 3310-1, 3310-2, 565 | EN 933-2

ISO 3310-1 Woven Wire Cloth Sieves		
Aperture Size	Ø 200 mm x 50 mm	Ø 300 mm x 75 mm
2 mm (No.10)	AG2WFI0200	AG3WFI0200
1.7 mm (No. 12)	AG2WFI0170	AG3WFI0170
1.6 mm	AG2WFI0160	AG3WFI0160
1.4 mm (No. 14)	AG2WFI0140	AG3WFI0140
1.25 mm	AG2WFI0125	AG3WFI0125
1.18 mm (No.16)	AG2WFI0118	AG3WFI0118
1 mm (No. 18)	AG2WFI0100	AG3WFI0100
850 µm (No. 20	AG2WFI0850	AG3WFI0850
800 µm	AG2WFI0800	AG3WFI0800
710 µm (No. 25)	AG2WFI0710	AG3WFI0710
630 µm	AG2WFI0630	AG3WFI0630
600 µm (No. 30)	AG2WFI0600	AG3WFI0600
500 µm (No. 35	AG2WFI0500	AG3WFI0500
425 µm (No. 40)	AG2WFI0425	AG3WFI0425
400 µm	AG2WFI0400	AG3WFI0400
355 µm (No. 45)	AG2WFI0355	AG3WFI0355
315 µm	AG2WFI0031	AG3WFI0031
300 µm (No. 50)	AG2WFI0030	AG3WFI0030
250 µm (No. 60)	AG2WFI0025	AG3WFI0025
212 µm (No. 70)	AG2WFI0021	AG3WFI0021
200 µm	AG2WFI0020	AG3WFI0020
180 µm (No. 80)	AG2WFI0018	AG3WFI0018
160 µm	AG2WFI0016	AG3WFI0016
150 µm (No. 100)	AG2WFI0015	AG3WFI0015
125 µm (No. 120)	AG2WFI0012	AG3WFI0012
106 µm (No. 140)	AG2WFI0011	AG3WFI0011
100 µm	AG2WFI0010	AG3WFI0010
90 µm (No. 170)	AG2WFI0009	AG3WFI0009
80 µm	AG2WFI0008	AG3WFI0008
75 µm (No. 200)	AG2WFI0007	AG3WFI0007
63 µm (No. 230)	AG2WFI0006	AG3WFI0006
53 µm (No. 270)	AG2WFI0053	AG3WFI0053
50 µm	AG2WFI0005	AG3WFI0005
45 µm (No. 325)	AG2WFI0045	AG3WFI0045
38 µm (No. 400)	AG2WFI0004	AG3WFI0004

LABORATORY TEST SIEVES ISO STANDARDS

ISO 3310-1, 3310-2, 565 | EN 933-2

ISO 3310-2 Perforated Plate Sieves		
Aperture Size	Ø 200 mm x 50 mm	Ø 300 mm x 75 mm
125 mm	AG2PC1250	TMA-3PC1250
106 mm	AG2PC1060	TMA-3PC1060
100 mm (4”)	AG2PC1000	TMA-3PC1000
90 mm (3 ½”)	AG2PC0900	TMA-3PC0900
80 mm	AG2PC0800	TMA-3PC0800
75 mm (3”)	AG2PC0750	TMA-3PC0750
63 mm (2 ½”)	AG2PC0630	TMA-3PC0630
56 mm	AG2PC0560	TMA-3PC0560
53 mm (2.12”)	AG2PC0530	TMA-3PC0530
50 mm (2”)	AG2PC0500	TMA-3PC0500
45 mm (1 ¾)	AG2PC0450	TMA-3PC0450
40 mm	AG2PC0400	TMA-3PC0400
37.5 mm (1-½”)	AG2PC0375	TMA-3PC0375
31.5 mm (1 ¼”)	AG2PC0315	TMA-3PC0315
28 mm	AG2PC0280	TMA-3PC0280
26.5 mm (1.06”)	AG2PC0265	TMA-3PC0265
25 mm (1”)	AG2PC0250	TMA-3PC0250
22.4 mm (7/8”)	AG2PC0224	TMA-3PC0224
20 mm	AG2PC0220	TMA-3PC0220
19 mm (¾”)	AG2PC0190	TMA-3PC0190
18 mm	AG2PC0180	TMA-3PC0180
16 mm (5/8”)	AG2PC0160	TMA-3PC0160
14 mm	AG2PC0140	TMA-3PC0140
13.2 mm (.530”)	AG2PC0132	TMA-3PC0132

LABORATORY TEST SIEVES ISO STANDARDS

ISO 3310-1, 3310-2, 565 | EN 933-2

ISO 3310-2 Perforated Plate Sieves		
Aperture Size	Ø 200 mm x 50 mm	Ø 300 mm x 75 mm
12.5 mm (½”)	AG2PC0125	AG3PC0125
11.2 mm (7/16”)	AG2PC0112	AG3PC0112
10 mm	AG2PC0100	AG3PC0100
9.5 mm (3/8”)	AG2PC0095	AG3PC0095
9 mm	AG2PC0090	AG3PC0090
8 mm (5/16”)	AG2PC0080	AG3PC0080
7.1 mm	AG2PC0071	AG3PC0071
6.7 mm (.265”)	AG2PC0067	AG3PC0067
6.3 mm (¼”)	AG2PC0063	AG3PC0063
5.6 mm (No. 3 ½)	AG2PC0056	AG3PC0056
5 mm	AG2PC0050	AG3PC0050
4.75 mm (No.4)	AG2PC0047	AG3PC0047
4 mm (No.5)	AG2PC0040	AG3PC0040

LABORATORY TEST SIEVES ASTM STD.

ASTM E11

ASTM E11 Woven Wire Cloth Sieves		
Aperture Size	8"x2" Sieves	12"x3" Sieves
100 mm (4")	AG2WCA1000	AG3WCA1000
90 mm (3 ½")	AG2WCA0900	AG3WCA0900
75 mm (3")	AG2WCA0750	AG3WCA0750
63 mm (2 ½")	AG2WCA0630	AG3WCA0630
53 mm (2.12")	AG2WCA0530	AG3WCA0530
50 mm (2")	AG2WCA0500	AG3WCA0500
45 mm (1 ¾	AG2WCA0450	AG3WCA0450
37.5 mm (1-½")	AG2WCA0375	AG3WCA0375
31.5 mm (1 ¼")	AG2WCA0315	AG3WCA0315
26.5 mm (1.06")	AG2WCA0265	AG3WCA0265
25 mm (1")	AG2WCA0250	AG3WCA0250
22.4 mm (7/8")	AG2WCA0224	AG3WCA0224
19 mm (¾")	AG2WCA0190	AG3WCA0190
16 mm (5/8")	AG2WCA0160	AG3WCA0160
13.2 mm (.530")	AG2WCA0132	AG3WCA0132
12.5 mm (½")	AG2WCA0125	AG3WCA0125
11.2 mm (7/16")	AG2WCA0112	AG3WCA0112
9.5 mm (3/8")	AG2WCA0095	AG3WCA0095
8 mm (5/16")	AG2WCA0080	AG3WCA0080
6.7 mm (.265")	AG2WCA0067	AG3WCA0067
6.3 mm (¼")	AG2WCA0063	AG3WCA0063
5.6 mm (No. 3 ½)	AG2WCA0056	AG3WCA0056
4.75 mm (No.4)	AG2WCA0047	AG3WCA0047
4 mm (No.5)	AG2WCA0040	AG3WCA0040
3.35 mm (No. 6)	AG2WFA0335	AG3WFA0335
2.8 mm (No. 7)	AG2WFA0028	AG3WFA0028
2.36 mm (No.8)	AG2WFA0236	AG3WFA0236
2 mm (No.10)	AG2WFA0200	AG3WFA0200
1.7 mm (No. 12)	AG2WFA0170	AG3WFA0170
1.4 mm (No. 14)	AG2WFA0140	AG3WFA0140
1.18 mm (No.16)	AG2WFA0118	AG3WFA0118
1 mm (No. 18)	AG2WFA0100	AG3WFA0100
850 µm (No. 20	AG2WFA0850	AG3WFA0850
710 µm (No. 25)	AG2WFA0710	AG3WFA0710
600 µm (No. 30)	AG2WFA0600	AG3WFA0600

LABORATORY TEST SIEVES ASTM STD.

ASTM E11

ASTM E11 Woven Wire Cloth Sieves		
Aperture Size	8"x2" Sieves	12"x3" Sieves
500 µm (No. 35	AG2WFA0500	AG3WFA0500
425 µm (No. 40)	AG2WFA0425	AG3WFA0425
355 µm (No. 45)	AG2WFA0355	AG3WFA0355
300 µm (No. 50)	AG2WFA0030	AG3WFA0030
250 µm (No. 60)	AG2WFA0025	AG3WFA0025
212 µm (No. 70)	AG2WFA0021	AG3WFA0021
180 µm (No. 80)	AG2WFA0018	AG3WFA0018
150 µm (No. 100)	AG2WFA0015	AG3WFA0015
125 µm (No. 120)	AG2WFA0012	AG3WFA0012
106 µm (No. 140)	AG2WFA0011	AG3WFA0011
90 µm (No. 170)	AG2WFA0009	AG3WFA0009
75 µm (No. 200)	AG2WFA0007	AG3WFA0007
63 µm (No. 230)	AG2WFA0006	AG3WFA0006
53 µm (No. 270)	AG2WFA0053	AG3WFA0053
45 µm (No. 325)	AG2WFA0045	AG3WFA0045
38 µm (No. 400)	AG2WFA0003	AG3WFA0003

WET WASHING SIEVES - PAN & COVER

Wet Washing Sieves

DESCRIPTION

Extremely useful sieves where samples need to be separated with the help of wet washing. Available in 8 inch diameter by 4 or 8 inches deep or their metric equivalent with stainless steel frames.

P. Code	Aperture Sizes	Diameter
AG3080	150 µm (No.100)	Ø 200 mm x 100 mm
AG3081	75 µm (No.200)	Ø 200 mm x 100 mm
AG3082	63 µm (No.230)	Ø 200 mm x 100 mm

WET WASHING SIEVES - PAN & COVER

Wet Washing Sieves

P. Code	Aperture Sizes	Diameter
AG3083	150 µm (No.100)	Ø 200 mm x 200 mm
AG3084	75 µm (No.200)	Ø 200 mm x 200 mm
AG3085	63 µm (No.230)	Ø 200 mm x 200 mm

PAN & COVER

FOR DIA 200 mm SIEVES

P. Code	Product	For Diameter
AG2075	Pan&Cover	Ø 200 x 50 mm
AG2076	Pan	Ø 200 x 50 mm
AG2077	Cover	Ø 200 x 50 mm

FOR DIA 8 INCH SIEVES

P. Code	Product	For Diameter
AG2078	Pan&Cover	8 inch x 2 inch
AG2079	Pan	8 inch x 2 inch
AG2080	Cover	8 inch x 2 inch

PAN & COVER

FOR DIA 300 mm SIEVES

P. Code	Product	For Diameter
AG3075	Pan&Cover	Ø 300 x 75 mm
AG3076	Pan	Ø 300 x 75 mm
AG3077	Cover	Ø 300 x 75 mm

FOR DIA 12 INCH SIEVES

P. Code	Product	For Diameter
AG3078	Pan&Cover	12 inch x 3 inch
AG3079	Pan	12 inch x 3 inch
AG3080	Cover	12 inch x 3 inch