



# GEOTECHNICAL

## TESTING EQUIPMENT

THE BEST IN TEST

# GENERAL



# General

Our general laboratory equipment are complementary equipment that are used in conjunction with our major equipment. To perform the different tests on all building materials: Aggregates, Cement, Concrete, Soil, Rock, asphalt etc.

We supply an extensive inventory of general laboratory product of the best quality and value ranging from balances and scales, thermometers, laboratory ovens, muffle furnaces, vacuum pumps, air compressor, core drills, laboratory glassware, water baths, pans, bowls, dishes, jars, trowels, brushes, shovels, spatulas, porcelain, scoops, containers, plasticware and general tools.

All items have been selected to suit the requirement of Standards and laboratory technicians.



## Laboratory Balances and Scales

### DESCRIPTION:

Our range of balances are designed for the lab but have the rugged features needed for materials testing.

They include all metal chemical resistant die-cast housings. Compact and durable, these balances are the best choice for basic weighing and economy.

The tough durable ABS housing is designed to withstand field and laboratory environments, while being easy to clean and protected from accidental spills.



### TECHNICAL SPECIFICATIONS:

Capacity		
GN 0101	Digital Balance 250 g	0.0001 g resolution
GN 0102	Digital Balance 250 g	0.001 g resolution
GN 0103	Digital Balance 450 g	0.001 g resolution
GN 0104	Digital Balance 750 g	0.001 g resolution
GN 0105	Digital Balance 1500 g	0.01 g resolution
GN 0106	Digital Balance 2500 g	0.01 g resolution
GN 0107	Digital Balance 4500 g	0.01 g resolution
GN 0108	Digital Balance 6000 g	0.1 g resolution
GN 0109	Digital Balance 8000 g	0.1 g resolution
GN 0110	Digital Balance 10 kg	0.1 g resolution
GN 0111	Digital Balance 20 kg	0.1 g resolution
GN 0112	Digital Balance 20 kg	1 g resolution
GN 0113	Digital Balance 32 kg	1 g resolution
GN 0114	Digital Balance 30 kg	5 g resolution
GN 0115	Digital Balance 48 kg	2 g resolution
GN 0116	Digital Balance 60 kg	5 g resolution
GN 0117	Digital Balance 75 kg	1 g resolution
GN 0118	Digital Balance 75 kg	5 g resolution
GN 0119	Digital Balance 150 kg	10 g resolution
GN 0120	Digital Balance 300 kg	20 g resolution



Mechanical Scales		
GN 0121	Harvard Trip Balance 2000g	0.1 g readability
GN 0122	Triple Beam Balance 2610g	0.1 g readability
GN 0123	Dial-O-Gram Balance 310g	0.1 g readability
GN 0124	Heavy Duty Solution Balance 311g	0.01 g readability



## Multi-Purpose Drying Ovens

EN 932-5, 1097-5, ASTM C 127- C136-D558, D559, D560,D698, D1557, D1559 BS 1377:1-1924:11

### DESCRIPTION:

The Geotechnical Laboratory Ovens offer a range of highly efficient, reliable, cost effective units to suit most drying, warming and general laboratory applications.

The exterior is constructed from sheet steel finished in an easy clean powder coated paint. The interior chamber is made from mild steel coated with aluminium (CLAD) with a stainless steel chamber available as an option.

Fitted with fixed shelf runners and removable chrome plated wire grid shelves. Heated by Incoloy sheathed elements positioned below the chamber floor for natural convection units and fitted around the fan on the back or side wall of the chamber for mechanical convection units.

The control system comprises of a Digital thermometer with thermostatically controlled units Microprocessor digital controller.



### ORDERING:

- GN 0125**  
Drying Ovens 30Ltr.
- GN 0126**  
Drying Ovens 50Ltr.
- GN 0127**  
Drying Ovens 120Ltr.  
40-250C.
- GN 0128**  
Drying Ovens 120Ltr.  
40-200C.
- GN 0129**  
Drying Ovens 250Ltr.  
40-250C.
- GN 0130**  
Drying Ovens 250Ltr.  
40-200C.
- GN 0131**  
Drying Ovens 500Ltr.
- GN 0132**  
Drying Ovens 500Ltr.
- GN 0133**  
Drying Ovens 500Ltr.
- GN 0134**  
Drying Ovens 500Ltr.

### TECHNICAL SPECIFICATIONS:

	Capacity ltr.	Int. Dimensions cm	Ext. Dimensions cm	Nbr. of Shelves	Weight kg	Max. working Temp. °C	Power Supply
GN 0125	30	32 x 32 x 32	47 x 47 x 60	2	17	250	220 V, 50-60 Hz, 1ph
GN 0126	50	38 x 38 x 38	55 x 61 x 71	2	20	250	220 V, 50-60 Hz, 1ph
GN 0127	120	57 x 44 x 49	80 x 72 x 67	2	70	250	220 V, 50-60 Hz, 1ph
GN 0128	120	57 x 44 x 49	80 x 72 x 67	2	70	300	220 V, 50-60 Hz, 1ph
GN 0129	250	57 x 56 x 80	80 x 85 x 104	3	100	250	220 V, 50-60 Hz, 1ph
GN 0130	250	57 x 56 x 80	80 x 85 x 104	3	100	300	220 V, 50-60 Hz, 1ph
GN 0131	500	57 x 80 x 110	80 x 108 x 133	4	140	250	220 V, 50-60 Hz, 3ph
GN 0132	500	57 x 80 x 110	80 x 108 x 133	4	140	300	220 V, 50-60 Hz, 3ph
GN 0133	700	57 x 89 x 148	80 x 127 x 182	4	170	250	220 V, 50-60 Hz, 3ph
GN 0134	700	57 x 89 x 148	80 x 127 x 182	4	170	300	220 V, 50-60 Hz, 3ph

## Electric Core Drill

EN 12697-27

### DESCRIPTION:

The Portable Core Drill electric powered engine is used for fast drilling into concrete or asphalt surfaces.

It can take up to 180mm core bit diameter capacity, Heavy duty, precision gear box – optimum gear ratio for fast and economical drilling. Power 1.6 HP, Weight 8 Kg.



### ORDERING:

**GN 0135**  
Handheld Core Drill with stand

**GN 0136**  
Handheld Core Drill without stand

### ACCESSORIES:

**GN 0135-1**  
Core Bit, 50 mm dia

**GN 0135-2**  
Core Bit, 100 mm dia

**GN 0135-3**  
Core Bit, 150 mm dia

## Petrol Core Drill

EN 12697-27

### DESCRIPTION:

The Heavy Duty Core Drill Machine is designed to minimize time required for cutting cores up to 150 mm diameter from concrete, asphalt and similar hard construction material.

This Core Drill is capable of handling large and small hole with stable drilling platform and dependable performance while increasing the bit life. Heavy-duty, dual-precision ground columns and tenzalloy precision machined carriage assembly Smooth-precision ball feed screw system, accurate hole drilling positioning and easy alignment of drill platform.



### ORDERING:

**GN 0137**  
Core Drill with Platform, Petrol Engine 6.0 HP, Weight 140Kg, complete with core bit

**GN 0138**  
Core Drill with Platform, Petrol Engine 10.5 HP, Weight 160Kg, complete with core bit

### ACCESSORIES:

**GN 0137-1**  
Core Bit, 50 mm dia

**GN 0137-2**  
Core Bit, 100 mm dia

**GN 0137-3**  
Core Bit, 150 mm dia

## Air Compressor

### DESCRIPTION:

The Air Compressor is easy to use and to control the air manipulation.

The Cast Iron cylinder compressor pump is long lasting and with reliable performance. 1.3 HP comes with 25 ltr or 50 ltr capacity.



### ORDERING:

**GN 0139**  
Air Compressor, 25 liters

**GN 0140**  
Air Compressor, 50 liters

## Vacuum Pump

### DESCRIPTION:

The Vacuum Pump is ideal for laboratory use, it removes gas molecules from a sealed volume in order to leave behind a partial vacuum.

### TECHNICAL SPECIFICATIONS:

Free Air displacement	Ultimate Vacuum
100 Ltr/Min.	0.01 (mbar) 220 V, 50-60 Hz, 1 ph



### ORDERING:

**GN 0141**  
Vacuum Pump

### ACCESSORIES:

**GN 0141-1**  
Rubber Tubing, 1 meter

## Distilled Water Equipment

### DESCRIPTION:

The Water Distillation unit gives high quality distilled water having an output of 4 liter/hr with a power input of 3 KW.

The unique features along with the safety provisions make it an ideal equipment to obtain pure distilled water for use in general laboratories and in numerous other end uses..



### ORDERING:

**GN 0142**  
Single Water Distillation Equipment 4 ltr.

**GN 0143**  
Water Distillation Equipment 7 ltr.

### ACCESSORIES:

**GN 0142-1**  
Spare glass

## Temperature, Hygrometer and Hydrometer Measurement

EN 1367-3

### DESCRIPTION:

Selecting the correct thermometer for an application is very important, to achieve the maximum accuracy and repeatability of the temperature reading.

Our Thermocouple, thermometers and probes are fast to respond to changes in temperature, they also have a wide measurement range. Resistance temperature detector and more accurate. Justifiably proud of the quality of both our products and service. To ensure recognition and maintenance of our quality standards we are registered to BS EN ISO 9001:2000. Original UKAS Certificates can be provided to prove that the instruments and probes have been calibrated against nationally approved standards.



### MAIN FEATURES:

- Measurement range
- Resolution of the reading 1°C,
- 0.1°C or 0.01°C
- Desired accuracy
- Response time

### ORDERING:

	Description	Temp Range	Temp Resolution	Accuracy
GN 0144	Digital Pocket Thermometer	-50 - +250°C	0.1°C	±0.4°C
GN 0145	Digital probe Thermometer	-49.9 to 199.9°C	0.1°C	±0.5°C
GN 0146	Digital probe Thermometer	-50 to 1000°C	1°C	±1°C
GN 0147	Digital probe Thermometer	-50 to 1000°C	0.1°C	±0.5°C
GN 0148	Thermocouple Wire 1 meter	-50 - +250°C	0.1°C	±0.5°C
GN 0149	K type Probe	-50 to 1000°C	1°C	±1°C
GN 0150	K type Probe	-50 - +250°C	0.1°C	±0.5°C

**GN 0151**  
Thermal Data  
Logger, 1 channel

**GN 0152**  
Thermal Data  
Logger, 2 channel

**GN 0153**  
Thermal Data  
Logger, 3 channel



**ORDERING:**



Glass Thermometers				
	Description	Temp Range	Resolution	Accuracy
GN 0154	Glass Thermometers	-10 - +60°C	1.0 °C	±1°C
GN 0155	Glass Thermometers	10 - +110°C	1.0 °C	±1°C
GN 0156	Glass Thermometers	-10 - +160°C	1.0 °C	±1°C
GN 0157	Glass Thermometers	-10 - +250°C	1.0 °C	±1°C
GN 0158	Glass Thermometers	-10 - +310°C	1.0 °C	±1°C
GN 0159	Min-Max Thermometer	-20 to +50°C	1.0 °C	±1°C
GN 0160	Protected Thermometer	-15 to +60°C	1.0 °C	±1°C
GN 0161	Dial Surface Thermometers	0 to 160°C	1.0 °C	±1°C

Portable Dial Thermometers				
	Description	Temp Range	Resolution	Accuracy
GN 0162	Portable Dial Thermometers	-30 to +60	1.0 °C	±1°C
GN 0163	Portable Dial Thermometers	-30 to +250	1.0 °C	±1°C
GN 0164	Portable Dial Thermometers	0 to +250	1.0 °C	±1°C

IP Thermometers				
	Description	Temp Range	Resolution	Accuracy
GN 0165	IP24C Thermometers	+95 +103	0.1 °C	±0.1°C
GN 0166	IP28C Thermometers	-6 to +400	0.1 °C	±0.1°C
GN 0167	IP38C Thermometers	23 to 27	2.0 °C	±0.1°C
GN 0168	IP60C Thermometers	-2 to +80	0.2 °C	±0.1°C
GN 0169	IP61C Thermometers	30 to 200	0.5 °C	±0.1°C
GN 0170	IP89C Thermometers	-1 to +175	0.5 °C	±0.1°C

Hygrometer and Hydrometer	
GN 0171	Hydrometer, Range 0.995 to 1.030 densities (gms/cc) at 270C
GN 0172	Hydrometer, Range 0.995 to 1.030 densities (gms/cc) at 270C
GN 0173	Hygrometer, for humidity and temp, -10 to 60°C and 20 to 95% RH
GN 0174	Digital Barometer, Range 0 to 1300mbar (0 to 975mmHg)





Spatulas	
GN 0175	Spatula, 100 mm blade with wooden handle
GN 0176	Spatula, 150 mm blade with wooden handle
GN 0177	Spatula, 200 mm blade with wooden handle

Trowels	
GN 0178	Small Trowel
GN 0179	Large Trowel
GN 0180	Float. Plasterer's type

Sample Trays	
GN 0181	Sample Tray, galvanized steel, 17 x 27 x 4 cm
GN 0182	Sample Tray, galvanized steel, 27 x 46 x 4 cm
GN 0183	Sample Tray, galvanized steel, 40 x 40 x 5 cm
GN 0184	Sample Tray, galvanized steel, 60 x 60 x 6 cm
GN 0185	Sample Tray, galvanized steel, 90 x 90 x 7 cm
GN 0186	Sample Tray, galvanized steel, 120 x 120 x 5 cm

Sample Container	
GN 0187	Sample Container. Steel. Lever Lid, 0.5 litres
GN 0188	Sample Container. Steel. Lever Lid, 2.5 litres
GN 0189	Sample Container. Steel. Lever Lid, 5 litres
GN 0190	Sample Container. Steel. Lever Lid, 10 litres
GN 0191	Sample Container. Steel. Lever Lid, 15 litres

Wire Baskets	
GN 0192	Wire Basket, BS 812, EN 1367-2 65 mm dia x 80 mm deep
GN 0193	Wire Basket, BS 812, EN 1367-2 95 mm dia x 120 mm deep
GN 0194	Wire Basket, BS 812, EN 1367-2 120 mm dia x 120 mm deep

General Items	
GN 0195	Trimming Knife
GN 0196	Heat-resistant gloves
GN 0197	Rubber Gloves

Scoop	
GN 0198	Scoop Large 7 x 11 x 4 cm
GN 0199	Scoop Medium 12 x 19 x 7 cm
GN 0200	Scoop Small 25 x 31 x 11 cm

Beakers and Bowls	
GN 0201	Bowl. 2 liter capacity, stainless steel
GN 0202	Bowl. 6 liter capacity, stainless steel
GN 0203	Bowl. 9 liter capacity, stainless steel
GN 0204	Beaker. 250 ml capacity, aluminium
GN 0205	Beaker. 500 ml capacity, aluminium
GN 0206	Beaker. 1000 ml capacity, aluminium

## General Laboratory Accessories

### ORDERING:

Lab General Accessories				
	Description	Temp Range	Resolution	Accuracy
GN 0207	Vernier Caliper, 200 mm	0 to 200mm	0.1mm	±0.1mm
GN 0208	Vernier Caliper, 300 mm	0 to 300mm	0.1mm	±0.1mm
GN 0209	Digital Vernier Caliper, 200 mm	0 to 200mm	0.1mm	±0.1mm
GN 0210	Digital Vernier Caliper, 300 mm	0 to 300mm	0.1mm	±0.1mm
GN 0211	Infrared Thermometer	-20 to +350°C	1.0 °C	±1°C
GN 0212	Hot Air dryer	+150°C		
GN 0213	Timer Clock			
GN 0214	Stop Watch			

Hot Plates				
	Description	Temp Range	Resolution	Accuracy
GN 0215	Hot Plate	10cm dia	250 °C	±1°C
GN 0216	Hot Plate	15cm dia	250 °C	±1°C
GN 0217	Hot Plate	20cm dia	250 °C	±1°C

Laboratory Glassware			
	Description		Accuracy
GN 0218	Beaker 50 ml	GN 0227	Flask, 50 ml
GN 0219	Beaker 100 ml	GN 0228	Flask, 100 ml
GN 0220	Beaker 250 ml	GN 0229	Flask, 250 ml
GN 0221	Beaker 500 ml	GN 0230	Flask, 500 ml
GN 0222	Beaker 1000 ml	GN 0231	Flask, 1000 ml
GN 0223	Beaker 2000 ml	GN 0232	Conical Flask 100 ml
GN 0224	Conical Beaker 100 ml	GN 0233	Conical Flask 250 ml
GN 0225	Conical Beaker 250 ml	GN 0234	Conical Flask 500 ml
GN 0226	Conical Beaker 500 ml	GN 0235	Conical Flask 1000 ml



## Measuring Cylinders

Measuring Cylinders	
GN 0236	Measuring Cylinder, Glass 50 ml
GN 0237	Measuring Cylinder, Glass 100 ml
GN 0238	Measuring Cylinder, Glass 250 ml
GN 0239	Measuring Cylinder, Glass 500 ml
GN 0240	Measuring Cylinder, Glass 1000 ml
GN 0241	Measuring Cylinder, Plastic 50 ml
GN 0242	Measuring Cylinder, Plastic 100 ml
GN 0243	Measuring Cylinder, Plastic 250 ml
GN 0244	Measuring Cylinder, Plastic 500 ml
GN 0245	Measuring Cylinder, Plastic 1000 ml



## General Laboratory Hardware



Measuring Cylinders	
GN 0246	Evaporating Dish Ø10 cm
GN 0247	Evaporating Dish Ø12 cm
GN 0248	Evaporating Dish Ø14 cm
GN 0249	Porcelain Crucible 10 ml
GN 0250	Porcelain Crucible 15 ml
GN 0251	Porcelain Crucible 25 ml

Bottles	
GN 0252	Polythene Bottle, 1 ltr
GN 0253	Polythene Bottle, 2.5 ltr
GN 0254	Polythene Bottle, 5 ltr
GN 0255	Wash Bottle, 500 ml
GN 0256	Wash Bottle, 1000 ml

General Items	
GN 0257	Glass Stirring
GN 0258	Graduated Pipette, 0.10 ml sub-divisions
GN 0259	Graduated Pipette, 0.25 ml sub-divisions
GN 0260	Bosshead
GN 0261	Clamp
GN 0262	Straight edge

General Items	
GN 0263	Clamp Boss Load Ring 1 KN
GN 0264	Clamp Boss Load Ring 2 KN
GN 0265	Clamp Boss Load Ring 3 KN
GN 0266	Clamp Boss Load Ring 5 KN
GN 0267	Clamp Boss Load Ring 10 KN
GN 0268	Clamp Boss Load Ring 15 KN
GN 0269	Clamp Boss Load Ring 28 KN
GN 0270	Clamp Boss Load Ring 50 KN
GN 0271	Magnetic Base for Dial Gauge

## Hot Plate Stirrers

### DESCRIPTION:

#### Magnetic Hot Plate Stirrer

Heating temperature up to 280°C  
 Stainless steel with ceramic coated hotplate for high chemical resistance  
 Speed Range 100-1500rpm  
 Built-in plate temperature probe  
 External temperature sensor increases accuracy to  $\pm 0.5^\circ\text{C}$   
 LED display of temperature and speed.  
 50°C HOT warning indicator for added safety (the indicator will still operate even after the unit is switched off).  
 ABS casing with fire retardant material, resistant to weak acid and alkali



#### 340 Magnetic Hotplate Stirrer

In addition to the above, the 340H magnetic hotplate stirrer also features:  
 Heating temperature up to 340°C  
 Stainless Steel top plate  
 Speed Range 100-1500rpm  
 Easy-to-read backlit LCD display  
 PC control



### TECHNICAL SPECIFICATIONS:

Product code	GN 0272	GN 0273	GN 0274	GN 0275	GN 0276
Max plate Temp	280°C	340°C	380°C	550°C	100°C
Plate size (Diameter)	135mm	135mm	140mm x 140mm	184mm x 184mm	180x450mm
Max H2O	3L	20L	5L	20L	0.4L per position
Plate material	Ceramic	Stainless Steel	Aluminium cover with ceramic coating	Ceramic	Stainless Steel & Silicone film
Max Length Stirrer Bar	50mm	80mm	50mm	80mm	40mm
Heat output	500W	500W	500W	1000W	470W
Dimensions	260x150x80mm	280x160x85mm	320x180x108mm	215x360x112mm	182x622x65mm

### ORDERING:

#### GN 0272

280 Magnetic Hot Plate Stirrer

#### GN 0273

340 Magnetic Hotplate Stirrer

#### GN 0274

380 Magnetic Hotplate Stirrer

#### GN 0275

550H Magnetic Hotplate Stirrer

#### GN 0276

100H-10 Multi Position Magnetic Hotplate Stirrer

## Moisture content tins and cans



### ORDERING:

#### Moisture content tins

##### GN 0277

Moisture content tin 75 mm dia. x 30 mm

##### GN 0278

Moisture content tin 55 mm dia. x 35 mm, aluminium

##### GN 0279

Moisture content tin 55 mm dia. x 65 mm, aluminium

##### GN 0280

Moisture content tin 75 mm dia. x 50 mm, aluminium

#### Aluminium field cans

##### GN 0281

Aluminium field can, 3 liters capacity

##### GN 0282

Aluminium field can, 5 liters capacity

#### Lever lid tins

##### GN 0283

Lever lid tin, 0.5 liter capacity

##### GN 0284

Lever lid tin, 1 liter capacity

##### GN 0285

Lever lid tin, 2.5 liter capacity

##### GN 0286

Lever lid tin, 5 liter capacity

##### GN 0287

Lever lid tin, 10 liter capacity

##### GN 0288

Slip-on lid tin (biscuit)

##### GN 0289

Slip-on lid tin, 212x225x120 mm

## Bottle Roller

### DESCRIPTION:

The Bottle Roller is suitable for maintain in rotation 6 bottles Ø 86 H.175 mm.

It is equipped with 4 anti-slip rolls. Electronic regulation of rotations: max 80 rpm.

Utilization by timer control for a preset period up to 0-99hours. It can contains nr. 1 bottle 5 Lt. - nr. 2 bottles 2 Lt. - nr. 2 bottles 1 Lt - nr. 6 bottles 0.5 Lt.

Outer casing in powdered painted steel acids resistant. Main switch bright.

### TECHNICAL

#### SPECIFICATIONS:

Working surface dimensions n°4 rolls	n°3 lanes lenght 360 mm.
Overall dimensions	300x480x250 mm
Weight working load	6 Kg
Weight	20 Kg



### UNI EN ISO 9001:2008

### ORDERING:

#### GN 0290

Bottle Roller

### ACCESSORIES:

#### GN 0290-1

Bottle 5 Lt.

#### GN 0290-2

Bottles 2 Ltr.

#### GN 0290-3

Bottles 1 Ltr.

#### GN 0290-4

Bottles 0.5 Ltr.

## CO2 Incubator

### DESCRIPTION:

The CO2 Incubator have a fully sealed, electro-polished, one-piece, deep drawn chamber which is manufactured from the highest grade 316 stainless steel. The outer cabinet is manufactured from stainless steel and has an anti-bacterial powder coat paint finish.

This gives the CO2 incubator exceptional corrosion and contamination resistance. An inner glass viewing door closes positively onto an inert gasket (no VOC's) and allows a clear view of the chamber contents without disturbing the internal atmosphere.

The outer door has a magnetic gasket providing a good seal and magnetic door locks which engage once the 200°C sterilization cycle starts. A rear access port allows temperature monitoring probes to be inserted safely into the chamber.

### MAIN FEATURES:

- Choice of 50 or 190 Liter capacity
- Drawn seamless inner chamber
- 200 °C dry-heat decontamination option

### ORDERING:

**GN 0291**  
CO2 Incubator



### TECHNICAL SPECIFICATIONS:

	Temperature Management	CO <sup>2</sup> Gas Management	O <sup>2</sup> Management	Dimensions
Range	5°C above ambient to +60°C	Range 0% to 20%	1% to 19%	Chamber 632x686x440 mm
Control	0.1°C	Control ± 0.1%	± 0.1%	
Stability	± 0.1°C @ 37°C	± 0.2%	± 0.25%	External 765x862x734 mm
Uniformity	± 0.25°C @ 37°C	± 0.2%	± 0.25%	
CO <sup>2</sup> Sensor		IR	Electrochemical	Shipping container 925x1080x850 mm

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