Electronic and Mechanical Balances

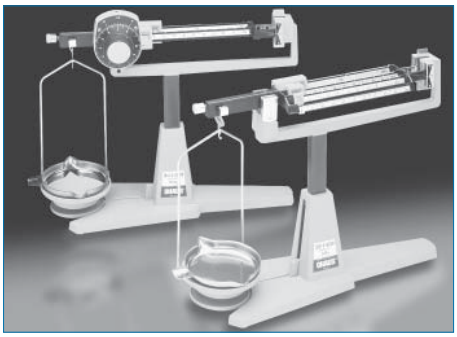
When selecting a scale, you may wish to consider these four points prior to your selection:

- Do you want mechanical or electronic scales and balances?
- What is the maximum amount you wish to weigh? Increased weighing capacity does not necessarily mean an increase in price.
- What is the desired readability and precision of the scale? Typically, the more accurate or precise the scale is, the costlier it is. The most expensive scales have high capacity with high precision.
- ASTM D 4753 and AASHTO M 231 address specifications and requirements for scales and balances.

Applications												
	Soil Moisture		**Soil Density**		**Proctor, CBR, LBR**	**Liquid + Plastic Limit**	**Sieve Analysis**	**Specific Gravity**	**Concrete**		**Asphalt**	
Model No.	< 200 g Sample	> 200 g Sample	Drive Cyl Method	Sand Cone Method	Soil Cement	Soils		Soils	Granular Material	Unit Weight	Mix Design	Mix Design
GW-111	✔					✔		✔				
GW-114							✔					
GW-115		✔	✔✔✔									
GW-2600		✔	✔✔✔									
GW-120					✔✔✔				✔✔✔		✔	✔
GW-130				✔✔✔								
Gw-135										✔✔✔	✔	
GW-30313								✔	✔			
GW-30315					✔			✔	✔	✔	✔✔✔	✔✔✔
GW-30316									✔		✔	✔
GW-33010	✔					✔						
GW-33020	✔				✔	✔						
GW-33030		✔					✔	✔				
GW-33601			✔									
GW-342	✔✔✔	✔✔✔				✔✔✔	✔✔✔	✔✔✔				
GW-345					✔		✔	✔		✔		
GW-346									✔	✔		
GW-43010				✔	✔			✔	✔	✔		
GW-43030										✔	✔	
Applicable Standards												
ASTM	**D 2216**	**D 2216**	**D 2939**	**D 1556**	**D 698 D 1557 D 1883**	**D 4318**	**D 421**	**D 854**	**C 125**	**C 9 C 138 C 232 C 388**		
AASHTO				**T 191**	**T 99 T 180 T 193**	**T 89**		**T 100**		**T 19 T 121**		

The most common standards are listed. Other ASTM and AASHTO designations may be applicable.
XXX indicates most popular model for application shown, X indicates suitable for application shown.

High Precision Mechanical Balances



(L - R) GW-110, GW-111

We offer two mechanical balances with a sensitivity of 0.01 g and capacity of 310 g. They are used for weighing soil samples in moisture determinations. No attachment weights are necessary. The three-point base, together with the special floating bearing and beam design, eliminates the need for a level adjustment. Each scale has a spring-loaded zero adjust compensator, parallax end reading, magnetic damping and a specific gravity platform. The removable stainless steel pan is 3⅝-in (9.2 cm) diameter by 1/2 in (2.7 cm) deep with two round spouts.

Specifications for	GW-110	GW-111
Capacity:	310 g	311 g
Readability:	0.01 g	0.01 g
Front Beam:	100 x 10 g	1x 0.01 g
Second beam:	-	10 x 1 g
Third Beam	-	100 x 10 g
Rear Beam:	200 x 100 g	200 x 100 g
Dial & Vernier	10 x 0.01 g	-
Dimensions (Wx DxH):	15 x 6 x 12 in (38.1 x 15.2 x 30.5 cm)	

GW-110	Dial-O-Gram Mechanical Balance	6 lb
GW-111	Cent-O-Gram Mechanical Balance	6 lb
Related Item		
GW-11101	Vinyl Dust Cover for GW-110 & GW-111	

Compact Digital Scale (2600 g)

Alternative to the Triple Beam Scale.

2600 g capacity.

Certified Accurate to ± 0.1 g.

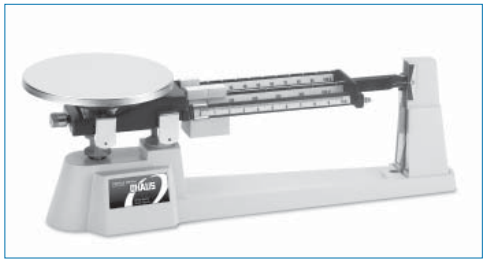
Batteries or AC adapter.

Stainless steel platform 5¾" X 5¾".

GW-2600 with GW-26099

GW-2600	Digital Scale, 2600 x 0.1 g, AC/Batt	2 lb
Related Item		
GW-26099	Carrying Case for GW-2600	

Triple Beam Scales



GW-115

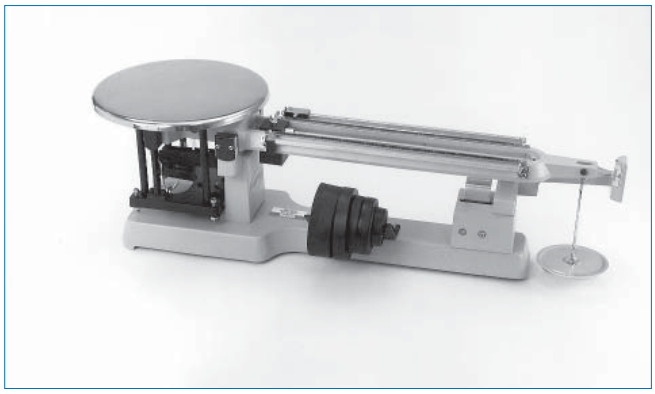
Four models of 2610-g capacity scales are offered for field and laboratory testing. Each has tiered, notched beams and magnetic damping and comes with a 500 g weight and two 1 kg attachment weights. These scales have a sensitivity of 0.1 g.

GW-114 has a removable stainless steel scoop for a weighing platform, the other models have a flat, stainless steel platform. Accessory GW-11520, footed stainless steel scoop with counter weight, is for models GW-115/6/7 during sieve analysis and weighing. GW-116 features an undivided tare beam for zeroing or taring weights up to 225 g. GW-117 has the Dial-O-Gram™ feature. The base of all four models is contoured to store the attachment weights.

GW-113	Triple Beam Scale w/ Poly. Scoop	9 lb
GW-114	Triple Beam Scale w/ S.S. Scoop	9 lb
GW-115	Triple Beam Scale	9 lb
GW-116	Triple Beam Scale w/ Tare Beam	9 lb
GW-117	Triple Beam Dial-O-Gram Scale	10 lb
Related Items		
GW-11405	500 g attachment weight	
GW-11410	1000 g attachment weight	
GW-11430	Tare Beam Assembly	
GW-11520	Footed Stainless Steel Scoop & Counter Weight for GW-115/116/117	
GW-11525	Footed Polyethylene Scoop & Counter Weight for GW-115/116/117	
GW-11630	Footed Polyethylene Scoop (for GW-113)	
GW-118	Specific Gravity Rod & Clamp Assembly	
GW-11415	Metric Weight Set, (2) 1000g. (1) 500 g	
GW-119	Vinyl Dust Cover for GW-114/5/6/7	
GW-11905	Plastic Carrying Case GW-115/6	

Specifications for	GW-113/4/5/6	GW-117
Capacity:	2610 grams	2610 grams
Readability:	0.1 gram	0.1 gram
Front Beam:	10 x 0.1 gram	225 gram tare
Middle Beam:	500 x 100 gram	500 x 100 gram
Rear Beam:	100 x 10 gram	100 x 10 gram
Dial & Vernier:	-	10 x 0.1 gram
Platform:	6 in (15.2 cm) Dia.	6 in (15.2 cm) Dia.

Heavy Duty Solution Balance



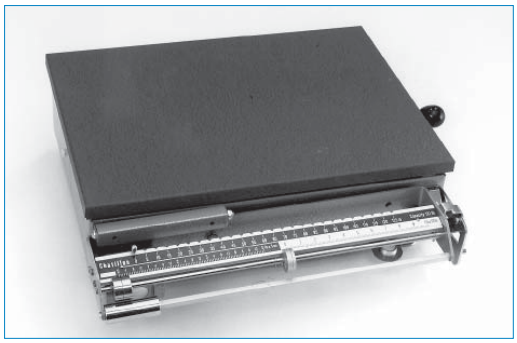
GW-120

The Heavy Duty Solution Balance, with a capacity of 20 kg and a sensitivity of 1 g, is suitable for weighing Proctor specimens. Auxiliary weights are provided for weighing over 1.1 kg. A 2.27 kg sliding weight tare beam and an 11 in (27.9 cm) circular stainless steel platform are included. Bearings are covered and self-aligning and the notched beam has a sliding center indicating poise. It meets ASTM requirements for a GP5 Class scale with 1 g readability.

GW-120	Heavy Duty Solution Balance, 20 kg x 1 g	44 lb
Related Items		
GW-12001	1 kg weight	
GW-12002	2 kg weight	
GW-12005	5 kg weight	
GW-12010	10 kg weight	

Specifications for **GW-120** Heavy Duty Solution Balance	
Capacity:	20 kg
Readability:	1 g
Front Beam:	100 x 1 g
Rear Beam:	1000 x 100 g
S/S Platform:	11 in (27.9 cm) Dia.

Portable Bench Beam Scale



GW-135

This is a self-contained portable scale with a 131-lb capacity and 0.01-lb resolution designed for the materials testing industry. It has a unique 22-lb capacity tare bar that will permit rapid taring of a 0.5-ft^3 concrete yield bucket. It also has the accuracy necessary for soil density weighing. Specifically engineered for fast readability with minor poise graduations of 1 lb x 0.01 lb. Beam graduations are:

- top: 125 lb x 5 lb
- bottom left: 5 lb x 1 oz
- bottom right: 1 lb x 0.01 lb

It is factory calibrated and features mirrored balance indicators and a notched reading beam of anodized aluminum alloy. Hardened steel pivots with self-aligning bearings ensure long life and low maintenance.

The scale has a 12 x 17 in. (30.5 x 43.2 cm) floating platform and is housed in a baked enamel, steel case. Platform and beam-locking mechanisms prevent damage when being carried. The scale has adjustable legs and a bubble leveling indicator. Beam length carrying handle provides convenience and beam protection.

Note: Refer to our electronic balance section for equivalent metric scales and scales with capacities higher than 131 lb.

GW-135	Portable Bench Beam Scale	28 lb

Specifications for **GW-135** Portable Bench Beam Scale	
Capacity:	131 lb
Readability:	0.01 lb
Main Beam:	125 x 5 lb
Fractional Beam:	5 x 0.1 lb
Tare Beam:	1 x 0.01 lb
Platform Size:	12 x 16 in (305 x 406 mm)

Platform Scale

GW-150 through GW-153

Weigh, count, checkweigh, percent weigh — the Ohaus EB Series Scale is an affordable multi function weighing scale which is versatile, portable and dependable.

- Maximum displayed resolution: 1:30,000
- Stainless steel weighing pan
- Four weighing units: kg, g, lb and oz
- User programmable weight and parts HI/LO checking mode
- Power-saving auto-shut off feature
- In use cover is included.

Note: No weigh-below capability.

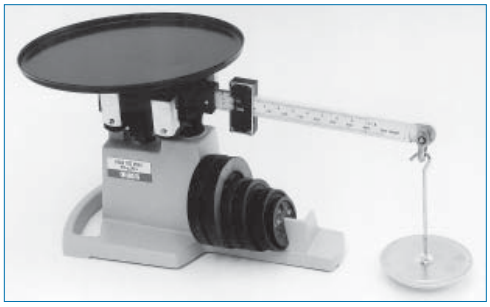
GW-150	Platform Scale 3000 g x 0.1g (6.6 lb x 0.0002 lb)	12 lb
GW-151	Platform Scale 6000 g x 0.2 g (13 lb x 0.0005 lb)	12 lb
GW-152	Platform Scale 15,000 g x 0.5 g (33 lb x 0.001 lb)	12 lb
GW-153	Platform Scale 30,000 g x 1 g (66 lb x 0.002 lb)	12 lb

Specifications for Electronic Platform Scales

Model ▶	GW-150	GW-151	GW-152	GW-153
Capacity x Readability	3 kg x 0.0001 kg	6 kg x 0.0002 kg	15 kg x x 0.0005 kg	30 kg x x 0.001 kg
	3000 g x 0.1 g	6000 g x 0.2 g	15,000 g x 0.5 g	30,000 g x 1 g
	6.6 lb x 0.0002 lb	13 lb x 0.0005 lb	33 lb x 0.001 lb	66 lb x 0.002 lb
	105 oz x 0.005 oz	208 oz x 0.01 oz	528 oz x 0.02 oz	1056 oz x 0.05 oz
Power	AC Adapter 12 V (dc) / 800 mA			
Battery Life	80 hours continuous use with 12 hr recharge time.			
Pan Size	11.6 in x 8.9 in (294 x 226 mm)			
Scale Dimensions	12.8 x 13 x 4.5 in (325 x 330.5 x 114 mm)			
Shipping Dimensions	17.3 x 14.2 x 6.3 in (440 x 360 x 160 mm)			
Shipping Weight	11.7 lb (5.3 kg)			

Multipurpose Field Scale

The Multipurpose Field Scale has either Metric or Avoirdupois scales with capacities of 16 kg or 36 lb and readabilities of 5 g or 0.01 lb, respectively. They are the scale of choice for sand cone density tests, but are designed for general laboratory and field weighing. Includes round, slotted, iron weights that are conveniently stored in a weight storage rack and covered, self-aligning bearings for maintenance-free use. 11-in (28 cm) diameter stainless steel weighing platform.



GW-130 or GW-131

GW-130	Avoirdupois Multipurpose Scale	23 lb
GW-131	Metric Multipurpose Scale	23 lb

Related Items

GW-13001	1 lb ratio weight	GW-13105	500 g ratio weight
GW-13002	2 lb ratio weight	GW-13110	1 kg ratio weight
GW-13005	5 lb ratio weight	GW-13120	2 kg ratio weight
GW-13010	10 lb ratio weight	GW-13150	5 kg ratio weight

Specifications for	GW-130	GW-131
Capacity:	36 lb	16 kg
Readability:	0.01 lb	5 g
Front Beam:	1 x 0.01 lb	500 x 5 g
Dimensions (WxDxH):	8 x 11 x 10 in (20.3 x 27.9 x 25.4 cm)	

OHAUS ELECTRONIC SCALES AND BALANCES

See selection table on next page

ADVENTURER PRO: Large LCD display and ergonomic leveling system for easy setup and operation; RS232 output for connection to computers and printers; 16 different user selectable weighing units.

EXPLORER PRO: Weighs in g, lb, kg, oz and other units; Extra large LCD display with text prompts; Selectable Average and Stability Levels; Available with Internal Calibration; RS232 Output; Percent Weighing; Dynamic Weighing

SCOUT PRO: Weighs in g, oz or lb (lb unit available only on 1200-6000 g model) Sealed Front Panel and Molded Spill Ring; RS232 Output available.

TROOPER: Weighs in kg, g, lb or oz Units; Stainless Steel Platform; Backlit LCD Display; RS232 Output

COMPACT: Large, high contrast display for easy viewing; low battery, overload and underload indicators and auto shut-off

ES SERIES: Weighs in kg, lb, oz or lb:oz units; Stainless Steel Platform and Painted Steel Frame; Three-Way Mounting Bracket Included

Selection Table for Electronic Scales and Balances

Durham Model No.	Capacity Units	Readability	Capacity Units	Readability	Weigh Below	Elec/Mech	Mfgr. Series	Ohaus Model No.	Pan/Platform Size inches/centimeters
GW-33001	51 g	0.001 g			Y	B/AC	Adventurer Pro	AV53	3.9 / 10 Dia.
GW-300	110 g	0.1 mg			N	AC	Adventurer Pro	AV114	3.5 / 9 Dia.
GW-205**	200 g	0.1 g			N	Batt only	Compact	CS200	5.75 x 5.25 / 14.6 x 13.3
GW-33010**	200 g	0.01 g			Y	B/AC	Scout Pro	SP202	4.7 / 12 Dia.
GW-33101	210 g	0.01 g			Y	B/AC	Adventurer Pro	AV212	4.7 / 12 Dia.
GW-302	260 g	1.0 mg			N	AC	Adventurer Pro	AV264	3.5 / 9 Dia.
GW-110	310 g	0.01 g			N	Mechanical	Dial-O-Gram	310-00	3.5 / 8.9 Dia.
GW-111	311 g	0.01 g			N	Mechanical	Cent-O-Gram	311-00	3.5 / 8.9 Dia.
GW-33015**	400 g	0.1 g			Y	B/AC	Scout Pro	SP401	4.7 / 12 Dia.
GW-33017**	400 g	0.01 g			Y	B/AC	Scout Pro	SP402	4.7 / 12 Dia.
GW-30309	410 g	0.001 g			Y	AC	Explorer Pro	EP413	4.7 / 12 Dia.
GW-33022	600 g	0.01 g			Y	AC	Explorer Pro	EP612	6.8 x 6.8 / 17.2 x 17.2
GW-33020**	600 g	0.1 g			Y	B/AC	Scout Pro	SP601	6.5 x 5.5 / 16.5 x 14.2
GW-33025**	600 g	0.01 g			Y	B/AC	Scout Pro	SP602	4.7 / 12 Dia.
GW-33105	810 g	0.01 g			Y	B/AC	Adventurer Pro	AV812	5.8 x 6.3 / 14.9 x 16.2
GW-210**	2000 g	1 g			N	Batt only	Compact	CS2000	5.75 x 5.25 / 14.6 x 13.3
GW-33030**	2000 g	0.1 g			Y	B/AC	Scout Pro	SP2001	6.5 x 5.5 / 16.5 x 14.2
GW-33501	2100 g	0.1 g			Y	B/AC	Adventurer Pro	AV2101	6.6 x 7.1 / 16.8 x 18
GW-34300	2100 g	0.01 g			Y	AC	Adventurer Pro	AV2102	6.6 x 7.1 / 16.8 x 18
GW-30312	2100 g	0.01 g			Y	AC	Explorer Pro	EP2102	6.8 x 6.8 / 17.2 x 17.2
GW-2600**	2600 g	0.1 g			N	B/AC	MyWeigh	i2600	6.5 x 5.5 / 16.5 x 14.2
GW-115**	2610 g	0.1 g			N	Mechanical	TripleBeam	750SW	6 / 15.2 Dia.
GW-116**	2610 g	0.1 g			N	Mechanical	Tri-Beam w/tare	760SW	6 / 15.2 Dia.
GW-113	2610 g	0.1 g			N	Mechanical	TripleBeam	720 Series	Poly Scoop
GW-114	2610 g	0.1 g			N	Mechanical	TripleBeam	720 Series	Stainless Steel Scoop
GW-150**	3000 g	0.1 g	6.6 lb	0.0002 lb	N	B/AC	EB Series	EB3	11.6 x 8.9 / 29.4 x 22.6
GW-34301	3100 g	0.01 g			Y	AC	Adventurer Pro	AV3102	6.6 x 7.1 / 16.8 x 18
GW-33035**	4000 g	0.1 g			Y	B/AC	Scout Pro	SP4001	6.5 x 5.5 / 16.5 x 14.2
GW-344	4100 g	0.1 g			Y	B/AC	Adventurer Pro	AV4101	5.8 x 6.3 / 14.9 x 16.2
GW-30313	4100 g	0.1 g			Y	AC	Explorer Pro	EP4101	8 x 8 / 20.3 x 20.3
GW-220**	5000 g	2 g			N	Batt only	Compact	CS5000	5.75 x 5.25 / 14.6 x 13.3
GW-33040**	6000 g	1 g			Y	B/AC	Scout Pro	SP6000	6.5 x 5.5 / 16.5 x 14.2
GW-33045**	6000 g	0.1 g			Y	B/AC	Scout Pro	SP6001	6.5 x 5.5 / 16.5 x 14.2
GW-151**	6000 g	0.2 g	13 lb	0.0005 lb	N	B/AC	EB Series	EB6	11.6 x 8.9 / 29.4 x 22.6
GW-30318	6100 g	0.1 g			Y	AC	Explorer Pro	EP6101	8 x 8 / 20.3 x 20.3
GW-30319	6100 g	0.01 g			Y	AC	Explorer Pro	EP6102	6.8 x 6.8 / 17.2 x 17.2
GW-33601	8100 g	0.1 g			Y	B/AC	Adventurer Pro	AV8101	5.8 x 6.3 / 14.9 x 16.2
GW-30314	8100 g	0.1 g			Y	AC	Explorer Pro	EP8101	8 x 8 / 20.3 x 20.3
GW-30315	12000 g	0.1 g			Y	AC	Explorer Pro	EP12001	11 x 14 / 28 x 35.6
GW-152**	15000 g	0.5 g	33 lb	0.001 lb	N	B/AC	EB Series	EB15	11.6x8.9 / 29.4x22.6
GW-30316	22001 g	0.1 g			Y	AC	Explorer Pro	EP22001	11 x 14 / 28 x 35.6
GW-153**	30000 g	1 g	66 lb	0.002 lb	N	B/AC	EB Series	EB30	11.6 x 8.9 / 29.4 x 22.6
GW-30317	32000 g	0.1 g			Y	AC	Explorer Pro	EP32001	11 x 14 / 28 x 35.6
GW-342	4100/1000 g	0.1/0.01 g			Y	AC	Explorer Pro	EP4102D	6.8 x 6.8 / 17.2 x 17.2
GW-131	16 kg	5 g			N	Mechanical	Field Scale	2400-11	11 / 27.9 Dia.
GW-120	20 kg	1 g			N	Mechanical	HD Solution Bal	1119-D0	11 / 27.9 Dia.
GW-50010**	6 lb	0.01 lb	3 kg	0.0005 kg	N	B/AC	Trooper	TR3RS	13.5 x 9 / 34 x 23
GW-50020**	15 lb	0.002 lb	6 kg	0.001 kg	N	B/AC	Trooper	TR6RS	13.5 x 9 / 34 x 23
GW-43006	25 lb	0.002 lb	10 kg	0.001 kg	N	B/AC	Defender 5000	D51P10QR1	12 x 12 / 30 x 30
GW-50030**	30 lb	0.005 lb	15 kg	0.002 kg	N	B/AC	Trooper	TR15RS	13.5 x 9 / 34 x 23
GW-130	36 lb	0.01 lb			N	Mechanical	Field Scale	2400-12	11 / 27.9 Dia.
GW-43008	50 lb	0.005 lb	25 kg	0.002 kg	N	B/AC	Defender 5000	D51P25QR1	12 x 12 / 30 x 30
GW-43010**	60 lb	0.01 lb	30 kg	0.005 kg	N	B/AC	Defender	D31P30BR	12 x 14 / 30.5 x 35.5
GW-50040**	60 lb	0.01 lb	30 kg	0.005 kg	N	B/AC	Trooper	TR30RS	13.5 x 9 / 34 x 23
GW-345	66 lb	0.05 lb	30 kg	0.01 kg	N	B/AC	ES Series	ES30R	12.2 x 10.8 / 31 x 27
GW-43018	100 lb	0.01 lb	50 kg	0.005 kg	N	B/AC	Defender 5000	D51P50QL2	18 x 18 / 45 x 45
GW-346	110 lb	0.05 lb	50 kg	0.02 kg	N	B/AC	ES Series	ES50R	12.2 x 10.8 / 31 x 27
GW-135	131 lb	0.01 lb			N	Mechanical	Benchbeam Bal	PBB	12 x 17 / 30.5 x 43.2
GW-43020**	150lb	0.02 lb	60 kg	0.01 kg	N	B/AC	Defender	D31P60BR	12 x 14 / 30.5 x 35.5
GW-348	220 lb	0.1 lb	100 kg	0.05 kg	N	B/AC	ES Series	ES100L	20.5 x 15.7 / 52 x 40
GW-43030	250 lb	0.02 lb	100 kg	0.01 kg	N	B/AC	Defender 5000	D51P100QL2	18 x 18 / 45 x 45

** Case Available

CHOOSING AN OVEN

Several styles and models of ovens are available. The most commonly used ovens in the materials testing industry are listed; however, should you require an oven not listed, we can help you. Please contact us.

When choosing a laboratory oven you should consider the following:

- Temperature — You will want to select an oven with a maximum temperature rating greater than your maximum temperature requirements. This will allow the set temperature to be maintained more accurately.
- Circulation — Ovens use either gravity convection or mechanical draft (forced draft) to heat the oven contents. Gravity convection ovens may have “cold” and/or “hot” spots as the air inside the oven can become stagnant. Circulation depends on the difference in the air temperature within the oven. Typically, mechanical or forced draft ovens have fans that induce air flow through the oven to produce even heating. Many ASTM and AASHTO standards require use of a forced draft oven.
- Size — Sample container size, the number of samples and personal preference are important factors in properly sizing an oven. An oven with extra interior capacity might be nice to have, but oversized ovens require more energy to heat, special electrical power and can take up valuable space in the laboratory. Multiple smaller ovens rather than one large oven may be a good choice. Nevertheless, large ovens do have a place in the high-production laboratory or when large sample sizes are needed such as aggregate or asphalt testing.
- Mounting — Should it be a table top or floor mounted model?
- Motor protection — Should it be explosion-proof for volatile samples?
- Controls — Digital controls allow the operator to easily set the temperature requirements and display the actual oven temperature.
- Location — Choose your oven location carefully. Proper location can be a great time saver. Scales, balances and ovens are the most frequently used items in the materials lab. Placing them in the flow path of samples in the laboratory can be a great time and labor saver. Ovens are often placed along a wall, with the scales and balances located beside the oven or on a work table in front of the oven. Be sure to consider exhaust requirements as well!

Ovens Selection Table

Chamber Capacity		Chamber Dimensions		Max. Temperature		Oven Type Convection		Model
ft^3	m^3	in	cm	°F	°C	Forced	Gravity	
1.3	0.037	13 x 13 x 13	33 x 33 x 33	428	220		X	GO-215
1.75	0.050	18 x 14 x 12	46 x 36 x 30	400	204	X		GO-250
2.0	0.057	18 x 16 x 12	46 x 41 x 31	428	220		X	GO-216
2.3	0.065	24 x 14 x 12	61 x 36 x 30	400	204	X		GO-251
4.3	0.122	24 x 14 x 22	61 x 36 x 56	400	204	X		GO-252
6.0	0.170	26 x 24 x 20	66 x 61 x 51	550	289	X		GO-224
6.9	0.195	30 x 18 x 22	76 x 46 x 56	400	204	X		GO-253
7.0	0.230	26 x 26 x 51	66 x 66 x 130	326	163	X		GO-220
7.0	0.230	26 x 26 x 20	66 x 66 x 51	437	225	X		GO-222
10.0	0.283	25.5 x 30 x 24	65 x 77 x 61	437	225	X		GO-223
18.0	0.510	37 x 24 x 35	94 x 61 x 89	400	204	X		GO-254
27.7	0.785	37 x 37 x 35	94 x 94 x 89	400	204	X		GO-255

Double Wall Utility Ovens

These ovens are designed for drying, evaporating, heat treating, sterilizing and testing. They offer exceptional value and reliability. Temperature is controlled by an automatic hydraulic thermostat and relies on gravity convection (no fan).

CAUTION: Not for use with flammable solvents, combustible materials or enclosed containers.

GO-216

GO-215	1.3 ft³ Double Wall Oven, 115 V	55 lb
GO-21510	1.3 ft³ Double Wall Oven, 230 V	55 lb
GO-216	2 ft³ Double Wall Oven, 115 V	86 lb
GO-21610	2 ft³ Double Wall Oven, 230 V	86 lb
Related Items:		
GO-21540	Shelf for GO-215 or GO-21510	
GO-21640	Shelf for GO-216 or GO-21610	

Specifications for	GO-215	GO-216
Type	Gravity - Convection	Gravity - Convection
Chamber Capacity:	1.3 ft³ (0.037 m³)	2 ft³ (0.057 m³)
Temp Range:	428°F (220°C)	428°F (220°C)
Interior Dimensions: (W x D x H)	13 x 13 x 13 in 33 x 33 x 33 cm	18 x 12 x 16 in 43 x 31 x 41 cm
Exterior Dimensions: (W x D x H)	15 x 15 x 21 in 38 x 38 x 53 cm	20 x 14 x 25 in 51 x 36 x 63 cm
Elect. Power (115 V)	800 W, 7 A, 60 Hz	1200 W, 10.4 A, 50/60 Hz
(205V)	800 W, 3.5 A, 60 Hz	1200 W, 5.2 A, 50/60 Hz
Chamber Doors:	1	1
Shelves Provided:	2	2
Max. Nr. of Shelves:	6	6
Construction:	Interior: Aluminized Steel Exterior: Painted, Double Wall	

Fan Forced Circulation Ovens

Favorite for soil moisture content determinations. The GO-220 is best liked for soils and the GO-222 for both soils and asphalt. The GO-224 provides up to 550°F (288°C) temperatures for asphalt testing. These economical, forced-circulation bench ovens feature large work spaces and portability with a power cord connector. They can be stacked to conserve space. An adapter to vent exhaust fumes is available. All models come with two heavy duty adjustable shelves with weight-carrying capacities of 75 lb each. Three models available with optional digital controls allowing 1-deg. accuracy over set temperature. Warranty is 18 months from date of manufacture.

GO-220

Forced Circulation Ovens			Temp Control	
GO-220	7 ft³	300 ºF, 115 V	Analog	180 lb
GO-22010	7 ft³	300 ºF, 230 V	Analog	180 lb
GO-222	7 ft³	437 ºF, 115 V	Analog	180 lb
GO-22210	7 ft³	437 ºF, 230 V	Analog	180 lb
GO-222E	7 ft³	437 ºF, 115 V	Digital	180 lb
GO-22210E	7 ft³	437 ºF, 230 V	Digital	180 lb
GO-223	10 ft³	437 ºF, 115 V	Analog	212 lb
GO-22310	10 ft³	437 ºF, 230 V	Analog	212 lb
GO-223E	10 ft³	437 ºF, 115 V	Digital	212 lb
GO-22310E	10 ft³	437 ºF, 230 V	Digital	212 lb
GO-224	6.6 ft³	550 ºF, 230 V	Analog	185 lb
GO-224E	6.6 ft³	550 ºF, 230 V	Digital	185 lb
Related Items				
GO-22020		Floor Cabinet w/ two slide-out shelves		
GO-22030		Floor Stand w/ one fixed shelf		
GO-22040HD		Extra Shelf		
GO-22050		Exhaust Chamber Adapter, 3 in (7.6 cm)		

Specifications	GO-220/2	GO-224	GO-223
Type:	Fan Circ.	Fan Circ.	Fan Circ.
Chamber Cap:	7 ft³	6.6 ft³	10 ft³
Temp Range:	125-300°F (GO-220) 125-437°F (GO-222)	125-500°F	125-437°F
Dimensions: Int: (W x D x H) Ext:	25.5 x 24 x 20 33 x 32 x 24	25.5 x 22.5 x 20 33 x 33 x 24	25.5 x 30 x 24 33 x 34 x 35.5
Elec. Power: (115 V)	1100 W, 9.7 A, 60 Hz (GO-220) 2110 W, 18.4 A, 60 Hz (GO-222)		2100 W, 18.3 A, 60 Hz
(230 V)	1100 W, 4.8 A, 60 Hz (GO-22010) 2110 W, 9.2 A, 60 Hz (GO-22210)	2800 W, 12.2 A, 50/60 Hz	2100 W, 9.17 A, 60 Hz
Chamber Doors:	2 doors, piano-type hinges		
Shelves Provided:	2	2	2
Max No. Shelves:	11	11	15
Construction: Int:	Aluminized Steel		
Ext:	Painted, Double Wall		

DESPATCH Forced Draft Ovens

The microprocessor-based digital controller assures accurate temperature control. Fan circulates air after it is heated to allow more uniform heat distribution. The welded double-wall construction and glass fiber insulation reduce heat loss. UL listed. The heater comes with a 1-year or 2,000 hour warranty.

GO-251	Forced Draft Oven, 2.3 ft³	120 lb
GO-252	Forced Draft Oven, 4.3 ft³	145 lb
GO-253	Forced Draft Oven, 6.9 ft³	215 lb
GO-254	Forced Draft Oven, 18 ft³	350 lb
GO-255	Forced Draft Oven, 27.7 ft³	460 lb
Related items		
GO-25010	Installed 240 V conversion kit for ovens GO-251, GO-252, GO-253	
GO-530	High temperature cotton gloves	

Note: Exhaust Stack Adapter kit, ports, extra shelves, stand, stacking hardware available.

CAUTION: Not for use with flammable solvents, combustible materials or enclosed containers.

Specifications for		**GO-251**	**GO-252**	**GO-253**	**GO-254**	**GO-255**
Chamber Capacity:		2.3 ft³ (0.065 m³)	4.3 ft³ (0.122 m³)	6.9 ft³ (0.195 m³)	18.0 ft³ (0.510 m³)	27.7 ft³ (0.785 m³)
Interior Dimensions:	(in)	24 x 14 x 12	24 x 14 x 22	30 x 18 x 22	37 x 24 x 35	37 x 37 x 35
(W x D x H)	(cm)	61 x 36 x 30	61 x 36 x 56	76 x 46 x 56	94 x 61 x 89	94 x 94 x 89
Exterior Dimensions:	(in)	27 x 18.5 x 24	27 x 18.5 x 35	34 x 22.5 x 36	40 x 28.5 x 49	40 x 41.5 x 49
(W x D x H)	(cm)	69 x 47 x 61	69 x 47 x 89	86 x 57 x 91	102 x 72 x 124	102 x 105 x 124
Temp Range:		86 °F to 400 °F (30 °C to 204 °C)				
Chamber Doors:		1	1	2	2	2
Shelves Provided:		2	2	2	2	2
Max. No. of Shelves:		4	9	9	15	15
Construction:	Interior:	Stainless steel				
	Exterior:	Welded double-wall, baked enamel finish				
Power Rating:	(W)	1200	1600	2400	3600	4800
Voltage 50/60 Hz	(V)	120 / 240*	120 / 240*	120 / 240*	240	240
Amperage:	(A)	1.6 / 5.8	15.0 / 7.5	21.6 / 10.8	16.6	21.6

*Order 240 V conversion kit (part no. GO-25010) for 240 V operation on these models. 240 V ovens will operate satisfactorily on 208 V with a 25% reduction in heater capacity.

Muffle Furnaces

Our bench top muffle furnaces have an operating range of 100 to 1100°C. Temperature is set by turning a knob and pressing the "push to set temperature" button. Chamber temperature is displayed on a digital readout. Ceramic fiber insulation permits faster heat-up and reduces energy consumption. Embedded heating elements on the top and sides improve the chamber temperature gradient. The drop-down door design doubles as a convenient shelf for loading and unloading samples. These ovens have a door safety switch which cuts power to the elements if the door is opened during use.

CAUTION: Not for use with flammable solvents, combustible materials or enclosed containers.

GO-225

GO-226

GO-226	Muffle Furnace, 76 in³, 120 V, 50/60 Hz	17 lb
GO-22610	GO-226 w/ 240 V 50/60 Hz	17 lb
GO-225	Muffle Furnace, 127 in³, 120 V, 50/60 Hz	41 lb
GO-22510	GO-225 w/ 240 V 50/60 Hz	
GO-227	Muffle Furnace, 860 in³, 240 V, 50/60 Hz	110 lb
Related Item		
G-535	Laboratory Tongs	

Specifications for	**GO-226**	**GO-225**	**GO-227**
Chamber Capacity:	76 in³ (1.3 ℓ)	120 in³ (2 ℓ)	860 in³ (14 ℓ)
Interior Dim. (in)	4 x 5.0 x 3.8	5 x 6 x 4	12.8 x 10 x 6.8
(W x D x H) (cm)	10.3 x 13 x 9.8	13.7 x 15 x 10	33 x 25 x 18
Exterior Dim. (in)	9 x 13 x 14	11.3 x 22 x 18.5	19.1 x 29.5 x 21
(W x D x H) (cm)	23 x 33 x 36	28.5 x 56 x 47	48.5 x 74.9 x 53.3
Temp Range:	212°F to 2012°F (100°C to 1100°C)		
Chamber Doors:	Drop-down door doubles as loading shelf		
Construction:			
Interior:	Ceramic		
Exterior:	Metallic Enamel		
Power Rating: (W)	1050	1500	2400
Voltage 50/60 Hz (V)	120/240	120/240	240
Amperage (A)	8.8	12.5	10

Note: Larger muffle furnace sizes available.

Warming Pot

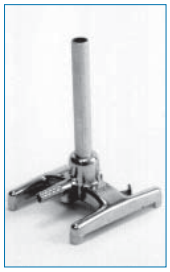
GO-230

Designed for melting and maintaining the heat level of paraffin sealing waxes and capping compounds. They have an adjustable thermostatic control operable up to 550°F (228°C). The inner heating chamber is made of cast aluminum, encased in stainless steel and surrounded by 3 inches of fiberglass insulation. The aluminum top cover is fitted with a wooden handle. The pot is provided with a pilot light and a 6-ft (2.4 m), 3-conductor grounded power cord. They are available in five sizes with heating elements for 110 or 220 V, 50/60 Hz, single phase circuits.

Warming Pots		
GO-230	Warming Pot, 4 qt 110 V	16.0 lb
GO-23010	Warming Pot, 4 qt 220 V	16.0 lb
GO-231	Warming Pot, 8 qt 110 V	27.0 lb
GO-23110	Warming Pot, 8 qt 220 V	27.0 lb
GO-232	Warming Pot, 12 qt 110 V	29.0 lb
GO-23210	Warming Pot, 12 qt 220 V	29.0 lb
GO-23220	Warming Pot, 20 qt 110 V	43.0 lb
GO-23225	Warming Pot, 20 qt 220 V	43.0 lb
GO-23228	Warming Pot, 28 qt 120 V	52.0 lb
GO-23229	Warming Pot, 28 qt 220 V	52.0 lb
Related Item		
G-29105	Capping Ladle, stainless steel, 8 oz (0.24 L) capacity	

Bunsen and Meker Burners

The Bunsen Burner produces over 5,000 BTU per hour, using natural gas. It has two adjustable air inlets, tip resistant base and a replaceable flame retainer.



GO-24

GO-241

G-535

The Meker Burner heat output is in excess of 12,000 BTU per hour using LP gas. A stainless steel grid top with 100 openings ensures uniform heating. The Meker burner is made with a chrome plated brass body and zinc-aluminum base. An adjustable air shutter and gas orifices ensure complete combustion.

GO-24	Bunsen Burner for natural gas	2 lb
GO-241	Meker Burner for LP gas	2 lb
Related item		
G-535	Laboratory Tongs, 9 in long	

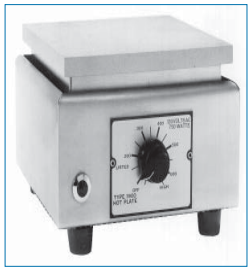
Hot Plates

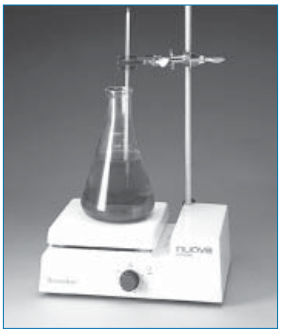
The Hot Plates have aluminum, cast iron or porcelain coated stainless tops with embedded heating elements to provide temperature uniformity and stability. This ensures that there is less chance for "cold" or "hot" spots. Hot plates with tubular elements may be less expensive but do not offer the above benefits. Thermostatic temperature control senses top plate temperature to provide excellent stability. Aluminum tops offer control at low temperatures and are recommended for glass vessels only. Cast iron tops accommodate metal vessels. The porcelain coated stainless steel top has excellent corrosion resistance and is recommended for use with glass vessels. The 12 x 24-in hot plate case is painted with epoxy paint for increased chemical resistance in corrosive environments. Applications include sample drying, general reagent heating, evaporation and heating asphaltic product. The 12 x 12-in and 12 x 24-in plates accommodate up to 40 lb (18 kg) loads. The selection chart will assist you in finding the hot plate suited to your application. All models are 50/60 Hz.

GO-235	Hot Plate, 6¼ x 6¼, 120 V	5 lb
GO-23510	Hot Plate, 6¼ x 6¼, 240 V	5 lb
GO-236	Hot Plate, 9 x 9, 120 V	17 lb
GO-23610	Hot Plate, 9 x 9, 240 V	17 lb
GO-237	Hot Plate, 12 x 12, 120 V	21 lb
GO-23710	Hot Plate, 12 x 12, 240 V	21 lb
GO-238	Hot Plate, 12 x 24, 120 V	43 lb
GO-23810	Hot Plate, 12 x 24, 240 V	43 lb
GO-239	Hot Plate, 7 x 7, 120 V	8 lb
GO-23910	Hot Plate, 7 x 7, 240 V	8 lb

GO-237

GO-236


GO-235


GO-239

Specifications for		GO-235 ✔	GO-236 ✔	GO-237 ✔ ✔	GO-238 ✔ ✔ ✔	GO-239 ✔ ✔
Heating Surface Size:	(in)	6.25 x 6.25	9 x 9	12 x 12	12 x 24	7 x 7
	(cm)	16 x 16	23 x 23	30 x 30	30 x 61	18 x 18
Temp Range:	(°F)	100 - 700	425 - 900	100 - 700	100 - 700	100 - 700
	(°C)	38 - 371	218 - 482	38 - 371	38 - 371	38 - 371
Temperature Stability:	(°F)	± 7.2°F at 100°F	± 1.8°F at 300°F	± 5.4°F at 100°F	± 6.3°F at 100°F	± 9°F at 700°F
	(°C)	± 4°C at 100°C	± 1°C at 150°C	± 3°C at 100°C	± 3.5°C at 100°C	± 5°C at 371°C
Top Plate Material:		Cast Iron	Cast Iron	Aluminum	Aluminum	Porcelain on St. Steel
Power Rating:	(W)	750	1080	1600	3200	840
	(V)	120 / 240	120 / 240	120 / 240	120 / 240	120 / 240
	(A)	6.2 / 3.1	9.0 / 4.5	13.3 / 6.7	16.6 / 13.3	7.0 / 3.5

✔ Glass or metal vessels.
✔ ✔ Metal vessels only.

Water Baths

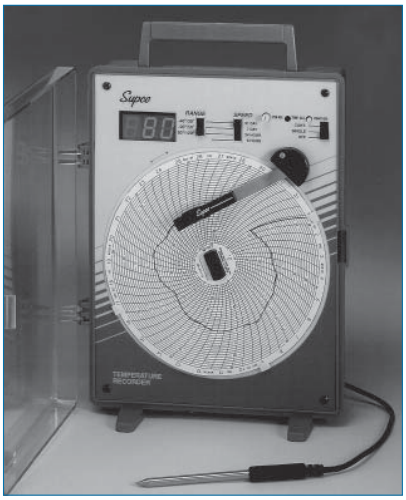
GO-234

GO-233	Budget Water Bath 115 V, 50/60 Hz, 1320 W	35 lb
Accessory:		
GO-23399	Grid for Economy Water Bath, Stainless Steel	

GO-233

GO-234	Standard Circulating Water Bath , 7.76 gal 115 V, 50/60/Hz, 1500 W	47.0 lb
GO-23410	Standard Circulating Water Bath , 7.76 gal 230 V, 50/60 Hz, 1500 W	47.0 lb
GO-23450	Standard Circulating Water Bath, 14-gal, 115VAC, 60 Hz	70.0 lb
GO-23460	Standard Circulating Water Bath, 14-gal, 230VAC, 50/60 Hz	70.0 lb

Digital Temperature Chart Recorder


G-184A

The G-184A Digital Temperature Recorder with remote sensor accurately measures and records temperature in air, gas, liquids, powders, solids and semi-solids.

Two selector switches on the face panel allow for recording of three different temperature ranges at four different recording speeds.

- Temperature ranges: -40 °F to 30 °F, -20 °F to 50 °F, 50 °F to 120 °F
- Temperature accuracy: ± 2 °F
- Chart speeds: 6 hr, 24 hr, 7 days, 31 days
- Chart speed accuracy: better than 1%
- Chart dia.: 6 in
- Ambient Operating Relative Humidity: 96% Max
- Remote readings from up to 100 ft (with optional sensor wire). Remote sensor accurately measures and records temperatures in air, gas, liquids, powders, solids and semisolids.
- Programmable speed and temperature ranges

The temperature probe has a 15 ft-long cable with a 4-in long stainless steel submersible tip. 115 V (ac), 50/60 Hz. Battery back-up. Optional adapter for 12 V vehicle operation.

Furnished complete with 2 cartridge pens and sixty assorted 6-in diameter charts.

G-184A	Digital Temperature Recorder, Fahrenheit Model	5 lb

Temperature / Humidity Recorder

Temp: -40 °F to 130 °F ±2 °F (-40 °C to 55 °C ±1 °C)

RH: 0-95% (non-condensing) at 32 °F to 130 °F ±2% (0 °C to 55 °C) ambient

G-183A

- Chart dia.: 6 in.
- Front panel touch pad
- Real time data view
- Battery backup
- Field replaceable probes
- Field calibration of probes
- Independent channel alarms
- Temperature and humidity probe
- Comes with 10 ft Extension Cable, (15 ft total)

G-183A	Temp/Humidity 6-in Chart Recorder w/ Ext Cable	5 lb

Laser Infrared Thermometer

The Laser Infrared Thermometer offers precise, non-contact measurement in a lightweight, handheld instrument. With one hand operation, it is ideal for a wide variety of applications.

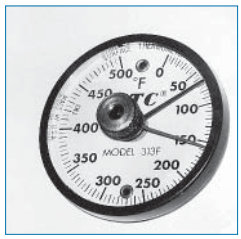
- 11:1 optics, laser pointer
- Temperature range: -76 °F to 932 °F (-60 °C to 500 °C)
- Emissivity: 0.95 adjustable
- Best resolution: 0.1 °F
- Accuracy: ±2 °F (±1 °C)
- K-type thermocouple incl. ; incl.probe: 58 °F to 482 °F (14 °C to 250 °C) Accuracy: ±1% of reading or 2 °F
- Power supply: 2 AA batteries (incl.)
- Weight: 6.3 ounces (179 g)
- Dimensions: 5.9 x 1.5 x 2.8 in (175 x 39 x 71 mm)

G-16809

G-16809	Laser Infrared Thermometer	2 lb

Surface Thermometers

The Surface Thermometer is designed to measure the surface temperature of curing concrete, fresh laid asphalt and other materials. The thermometer is placed on the material surface. It reaches sensing equilibrium within three minutes with an accuracy of ±2% of full scale range. The Surface Thermometer has a 2-in (5.1 cm) diameter dial and a depth of 1/2 in (1.3 cm).

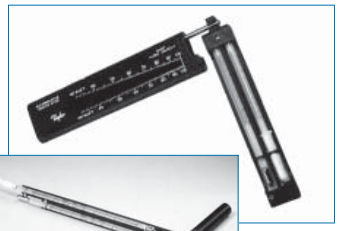

G-157

Surface Thermometers		
G-155	Surface Thermometer 0° to 250°F, 2° divs.	1.0 lb
G-156	Surface Thermometer -20° to 120°C, 1° divs.	1.0 lb
G-157	Surface Thermometer 0° to 500°F, 5° divs.	1.0 lb
G-158	Surface Thermometer -20° to 250°C, 2° divs.	1.0 lb

Sling Psychrometer

G-140 has tubes recessed in gray metal back, folding swivel handle and boxed with spare wicks and instructions.

G-142 Pocket Sling Psychrometer has self-contained sling-pocket case and slide rule. Range 20 °F to 120 °F. High impact plastic.


G-142

G-140

Thermometers:
Two mercury-filled, wet and dry bulb types.

G-140	Sling Psychrometer	1.0 lb
G-142	Pocket Sling Psychrometer	1.0 lb

Maximum - Minimum Thermometer

This thermometer is designed for temperature measurement situations where fluctuations need to be recorded. The thermometer records high and low readings from the last setting. It is provided with a push button reset and a dual scale that measures both °F and °C.

Size: 8¾ in x 2¾ in (22.2 x 7 cm).

G-180

G-180E	Digital Max/Min Temperature Recording Thermometer	1.0 lb

Digital Max/Min Thermometer

With dual sensors, the G-18050E is perfect for monitoring job site curing boxes or tanks with one instrument!

G-18050E

- Three day high/low memory for each sensor
- Selectable °F or °C scale
- Range: -40° to +221° F; -40° to 105° C
- Accuracy: +/- 2.0° F; +/- 1° C
- Waterproof probes on 6-ft cable
- Splash-resistant Case
- Velcro kit for mounting

G-18050E	Min / Max Thermometer	1 lb

Mercury Spill Kit

Mercury Spill Kit provides a safe and easy way to clean up accidental spills in the laboratory. Comes with instructions, dust pan, scaper, safety glasses, gloves, absorbent sponges, absorbent powder, Ziploc bag.

S-29599

S-29599	Mercury Spill Clean Up Kit

Concrete Reference Thermometer

The Concrete Reference Thermometer is for the calibration of measuring devices used for determining the temperature of freshly-mixed Portland cement concrete. It is mercury filled with a yellow background for easy reading and is 18 in (45.7 cm) long with 30° to 124°F range with 0.2°F divisions. Not dual scale.

Calibration is in accordance with ASTM E 77 for 3-in (7.6 cm) immersion. A NIST traceable certificate of calibration is supplied.

G-18710	Concrete Reference Thermometer	1 lb

Dial Thermometers

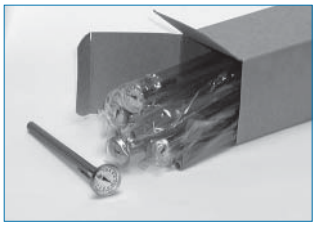
Direct reading thermometers with dual Fahrenheit and Celsius scales and external adjustment for recalibration. Made with a stainless steel stem and internal bimetal temperature sensing element. These thermometers will maintain an accuracy of 0.5% when used with the stem immersed over 2 inches (5.1 cm) in the material whose temperature is being measured. The dial is 1¾-in (4.5 cm) diameter and the stem is 8 in (20.3 cm) long.

G-150 series

G-150	Dial Therm. 25° to 125°F w/ 1° divs. and 0° to 50°C w/ 1° divs., plastic face	1 lb
G-151	Dial Therm. 0° to 220°F w/ 2° divs. and -10° to 100°C w/ 1° divs., plastic face	1 lb
G-153	Dial Therm. 50° to 550°F w/ 5° divs. and 10° to 280°C w/ 5° divs., glass face	1 lb

Pocket Dial Thermometer

Pocket Dial Thermometer



G-16112

G-166

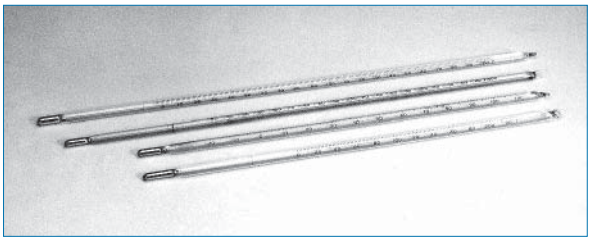
Designed for field use and spot checking. Made with a stainless steel 5-in (12.7 cm) stem and 1-in (2.5 cm) diameter dial. A pocket case with clip is included.

Available in five mechanical and one digital version (G-166) with a 0.25 in LCD display. All models come with a pocket carrier.

Pocket Thermometers		
G-160	Dial Pocket Therm. -40° to 160°F w/ 20 divs.	1 lb
G-161	Dial Pocket Therm. 25° to 125°F w/ 1° divs.	1 lb
G-16112	Dial Pocket Therm. 25° to 125°F w/ 1° divs. (box of 12)	3 lb
G-162	Dial Pocket Therm. 0° to 220°F w/ 2° divs.	1 lb
G-163	Dial Pocket Therm. 50° to 550°F w/ 5° divs.	1 lb
G-164	Dial Pocket Therm. -10° to 100°C w/ 1° divs.	1 lb
G-165	Dial Pocket Therm. 0° to 250°C w/ 5° divs.	1 lb
G-166	Digital Pocket Therm. F/C Switch, -40° to 392°F (0.1 div)	1 lb

General Laboratory Thermometers

These single scale, mercury filled, stem type thermometers are designed for general laboratory use. They are made from quality glass capillary tubing, sealed at one end with a thin wall tubular bulb at the other. Numbers, graduations and recommended immersion depths are engraved on all thermometers.



G-170 series

General Laboratory Thermometers		
G-169	Gen. Lab. Therm. -1° to 50°C x 0.1	1.0 lb
G-170	Gen. Lab. Therm. -10° to 110°C	1.0 lb
G-171	Gen. Lab. Therm. -20° to 150°C	1.0 lb
G-173	Gen. Lab. Therm. -10° to 260°C	1.0 lb
G-174	Gen. Lab. Therm. -10° to 400°C	1.0 lb
G-175	Gen. Lab. Therm. -30° to 120°F	1.0 lb
G-176	Gen. Lab. Therm. 0° to 230°F	1.0 lb
G-177	Gen. Lab. Therm. 0° to 300°F	1.0 lb
G-178	Gen. Lab. Therm. 20° to 500°F	1.0 lb
G-179	Gen. Lab. Therm. 20° to 750°F	1.0 lb

Model	G-169	G-170	G-171	G-173	G-174	G-175	G-176	G-177	G-178	G-179
Range:	-1 - 50 °C	-10 - 110 °C	-20 - 150 °C	-10 - 260 °C	-10 - 400 °C	-30 - 120 °F	0 - 230 °F	0 - 300 °F	20 - 500 °F	20 - 750 °F
Sub-Grads:	0.1 °C	1 °C	1 °C	1 °C	2 °C	1 °C	2 °C	2 °C	2 °C	5 °F
Length:	16 in	16 in	16 in	16 in	16 in	16 in	16 in	16 in	16 in	16 in
Weight: (lb)	1	1	1	1	1	1	1	1	1	1

Calibrated Glass Thermometers

Any of DGSI's mercury-filled glass thermometers can be custom calibrated at one or more temperature points. Each calibrated thermometer is furnished with a Calibration Report comparing readings of the thermometer with the respective standard temperature using calibration equipment traceable to the National Institute of Standards and Technology (NIST).

The G-169CAL, with readability to 0.1°C, is useful for those laboratory procedures near freezing and warm water such as hydrometer analysis, concrete cylinder curing tanks and water baths.

Calibrated Glass Thermometers		
	G-169CAL	G-170CAL
Range,°C	-1/51°C	-20/110°C
Divs. °C	0.1°C	1°C
Point Calibration	0, 10, 20, 30, 37, 40 & 50°C	0, 37 & 56°C
Immersion	76 mm	76 mm

Calibration Services	
G-18700	NIST Traceability Certificate
G-100CAL	Calibrate any thermometer at 3 points
G-101CAL	Additional single point

Temperature Retention Device

Used for greater accuracy when checking laboratory ovens. Maintains the temperature of the inserted thermometer while oven door is opened. 4-in (105 mm) long x 7/8-in (22.2 mm) thick. Internal diameter: 1/4 in (6.3 mm).

G-17000 (thermometer is additional)

G-17000	Temperature Retention Device	2.0 lb
Related Items		
S-29599	Mercury Spill Clean Up Kit	

Armored Case Concrete Thermometer

ASTM E 1

The Armored Case Concrete Thermometer may be used for temperature measurement of aggregates and concrete. 6 in (15.2 cm) long.

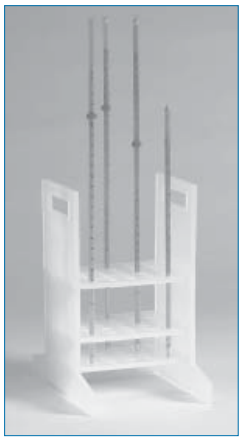
G-15910

G-15910	Armored Case Concrete Thermometer, 0° to 130°F, 2° divisions	1.0 lb
G-15915	Refill for G-15910	

ASTM Thermometers

Manufactured to meet ASTM Standard E 1 in every detail. The glass tubing used conforms to exacting specifications for composition and physical properties. Graduations, numbers and letters are deeply etched into the glass and filled with improved black or red pigments which are unaffected by ordinary solvents.

Note: ASTM Thermometers in ranges other than listed below are available on request.



G-17001

Thermometer Storage Rack

Minimize risks of breakage or damage with this thermometer storage rack which holds up to 25 thermometers. 5/16-in (7.9 mm) dia. retaining holes. 1/8-in (3.2 mm) drain holes in base plate. Sturdy polyethylene construction.

G-17001	Thermometer Storage Rack	4 lb

ASTM Thermometers

Model	Range	Divisions	Approx. Length	Application	ASTM Designation
G-18711	0° to 302 °F	2 °F	12½ in (31.8 cm)	General Use	1 F
G-18712	-20 to 150 °C	1 °C	12½ in (31.8 cm)	General Use	1 C
G-18713	20 to 580 °F	2 °F	15⅜ in (39.1 cm)	General Use	2 F
G-18714	-5 to 300 °C	1 °C	15⅜ in (39.1 cm)	General Use	2 C
G-18715	20 to 760 °F	2 °F	16¼ in (41.3 cm)	General Use	3 F
G-18716	-5 to 400 °C	1 °C	16¼ in (41.3 cm)	General Use	3 C
G-18717	30 to 760 °F	2 °F	15¼ in (38.7 cm)	High Distillation	8 F
G-18718	20 to 230 °F	1 °F	11¼ in (28.6 cm)	Pensky-Martens/Low	9 F
G-18719	200 to 700 °F	5 °F	11¼ in (28.6 cm)	Pensky-Martens/Low	10 F
G-18720	20 to 760 °F	5 °F	12⅛ in (30.8 cm)	Open Flash	11 F
G-18721	-6 to 400 °C	2 °C	12⅛ in (30.8 cm)	Open Flash	11 C
G-18722	-2 to 300 °C	1 °C	15⅛ in (38.4 cm)	Low Distillation	7 C
G-18723	-5 to 110 °C	1/2 °C	11¾ in (29.0 cm)	Pensky-Martens/Low	9 C
G-18725	155 to 170 °C	1/2 °C	7 in (15.5 cm)	Loss on Heat	13 C
G-18730	30 to 180 °F	1/2 °F	15⅝ in (39.7 cm)	Low Softening Point	15 F
G-18731	-2 to 80 °C	1/5 °C	15⅝ in (39.7 cm)	Low Softening Point	15 C
G-18740	85 to 392 °F	1 °F	15⅝ in (39.7 cm)	High Softening Point	16 F
G-18741	30 to 200 °C	1/2 °C	10⅞ in (27.6 cm)	High Softening Point	16 C
G-18749	66 to 80 °F	1/5 °F	10⅞ in (27.6 cm)	High Softening Point	17 F
G-18750	19 to 27 °C	1/10 °C	10⅞ in (27.6 cm)	Saybolt Viscosity	17 C
G-18751	94 to 108 °F	1/5 °F	10⅞ in (27.6 cm)	Saybolt Viscosity	18 F
G-18752	34 to 42 °C	1/10 °C	10⅞ in (27.6 cm)	Saybolt Viscosity	18 C
G-18753	120 to 134 °F	1/5 °F	10⅞ in (27.6 cm)	Saybolt Viscosity	19 F
G-18754	49 to 57 °C	1/10 °C	10⅞ in (27.6 cm)	Saybolt Viscosity	19 C
G-18755	134 to 148 °F	1/5 °F	10⅞ in (27.6 cm)	Saybolt Viscosity	20 F
G-18756	57 to 65 °C	1/10 °C	10⅞ in (27.6 cm)	Saybolt Viscosity	20 C
G-18757	174 to 188 °F	1/5 °F	10⅞ in (27.6 cm)	Saybolt Viscosity	21 F
G-18758	79 to 87 °C	1/10 °C	10⅞ in (27.6 cm)	Saybolt Viscosity	21 C
G-18759	204 to 218 °F	1/5 °F	10⅞ in (27.6 cm)	Saybolt Viscosity	22 F
G-18760	137.5 to 142.5 °F	1/10 °F	12 in (30.5 cm)	Kinematic Viscosity	47 F
G-18761	272.5 to 277.5 °F	1/10 °F	12 in (30.5 cm)	Kinematic Viscosity	110 F
G-18762	133.6 to 136.4 °C	1/20 °C	12 in (30.5 cm)	Kinematic Viscosity	110 C
G-18763	18 to 89 °F	1/5 °F	15 in (38.1 cm)	Precision	63 F
G-18764	-8 to 32 °C	1/10 °C	15 in (38.1 cm)	Precision	63 C
G-18765	50 to 80 °C	1/10 °C	15 in (38.1 cm)	Precision	65 C
G-18766	20 to 70 °C	1/5 °C	12 in (30.5 cm)	Stormer Viscosity	49 C
G-18767	95 to 155 °C	1/5 °C	15 in (38.1 cm)	Precision	67 C
G-18768	-18 to 49 °C	1/2 °C	12 in (30.5 cm)	Tank	97 C
G-18769	0 to 120 °F	1 °F	12 in (30.5 cm)	Tank	97 F
G-18770	30 to 350 °F	1 °F	16 in (40.6 cm)	Bituminous Softening Point	113 F
G-18771	-1 to 175 °C	1/2 °C	16 in (40.6 cm)	Bituminous Softening Point	113 C
G-18772	24 to 78 °C	1/5 °C	15½ in (39.5 cm)	Solvents Distillation	38 C
G-18773	203 to 311 °F	1/2 °F	15 in (38.1 cm)	Precision	67 F
G-18774	77 to 131 °F	1/5 °F	15 in (38.1 cm)	Precision	64 F

Laboratory Mixers

G-250

These mixers are all of the planetary beater type, where the flat beaters rotate in the opposite direction to the orbit around the inside of the mixing bowl. This ensures that the mixing is thorough and uniform. The mixers have a direct gear drive transmission that may be set for three speeds with a control lever. A hand lever is used to raise, lower and lock the bowl at the desired position. Adjustment is allowed for proper clearance between the bowl and the beater.

Select from the five available models with capacities from 5 to 30 quarts (4.7 to 28.4 ℓ). Each is supplied with a grounded line cord, and stainless steel bowl and flat beater. The mixer housings are made from cast aluminum and plastic with a painted finish.

G-251 satisfies the mixer requirements of ASTM C 227 and and C 305 and AASHTO T-162 standards for sample preparation of soils, bituminous concrete and cement mortars. See the table below for details. Heating mantles available to maintain temperature of asphalt mixers.

Laboratory Mixers		
G-250	5 qt Mixer, 115 V, 60 Hz	55.0 lb
G-25010	5 qt Mixer, 230 V, 50 Hz	55.0 lb
G-251	5 qt Mixer w/ adjust. brkt, 115 V, 60 Hz	57.0 lb
G-25110	5 qt Mixer w/ adjust. brkt, 230 V, 50 Hz	57.0 lb
G-255	12 qt Mixer, 115 V, 60 Hz	185.0 lb
G-25510	12 qt Mixer, 230 V, 50 Hz	185.0 lb
G-260	20 qt Mixer, 115 V, 60 Hz	200.0 lb
G-26010	20 qt Mixer, 230 V, 50 Hz	200.0 lb
G-270	Floor Mounted 30 qt Mixer, 115 V, 60 Hz	360.0 lb
G-27010	Floor Mounted 30 qt Mixer, 230 V, 50 Hz	360.0 lb

Accessory and Replacement items for Laboratory Mixers

Model	**G-250**	**G-251**	**G-255**	**G-260**	**G-270**
S.S. Flat beater	G-25040	G-25040	G-25540	G-26040	G-27040
Alum. Flat Beater	G-25041	G-25041	G-25541	G-26041	G-27041
Heating Mantle, 110 V	G-25060	G-25060	G-25560	G-26060	G-27060
Heating Mantle, 230 V	G-25061	G-25061	G-25561	G-26061	G-27061

Specifications for Laboratory Mixers

Model	**G-250**	**G-251**	**G-255**	**G-260**	**G-270**
Quarts:	5	5	12	20	30
Liters:	4.7	4.7	11.4	18.9	28.4
Motor, HP:	1/6	1/6	1/3	1/2	3/4
RPM: (l)	139	139	105	107	95
(m)	285	285	196	198	176
(h)	591	591	358	361	321
Width:	10.5 in	10.5 in	16 in	20 in	22 in
Depth:	15 in	15 in	20 in	21 in	23.5 in
Height:	17 in	17 in	26.5 in	30 in	45 in
ASTM:	----	C-305	----	----	----
AASHTO	----	C-227	----	----	----

Mixing Pans and Bowls

DGSI Mixing Pans

DGSI Mixing Bowls

Mixing Pans and Bowls				
Model	Shape	Material	Size-inches	Weight
G-30001X	Rectangular	Aluminum	7.3 x 3.7 x 2.3	1 lb
G-30002	Rectangular	Aluminum.	13 x 9 x 2	5 lb
G-30003	Rectangular	Aluminum.	25 x 17 x 1	12 lb
G-30005	Rectangular	Stainless Stl.	20 x 12 ¾ x 2 ½	6 lb
G-30006	Rectangular	Stainless Stl.	12 ¾ x 6 ⅞ x 6	3 lb
G-30017	Rectangular	Stainless Stl.	13 ⅞ x 12 ¾ x 2 ½	12 lb
G-30008	Square	Coated Steel	8 x 8 x 2	1 lb
G-30009	Square	Galv. Sht. Mtl.	18 x 18 x 3	8 lb
G-30010	Square	Galv. Sht. Mtl.	24 x 24 x 3	13 lb
G-30011	Round	Stainless Stl.	7 ¾ dia. x 2 ¾	3 lb
G-30012	Round	Stainless Stl.	9 ¾ dia. x 3 ½	3 lb
G-30014	Round	Stainless Stl.	13 ½ dia. x 5	5 lb
G-30015	Round	Stainless Stl.	17 ½ dia. x 6 ½	7 lb
G-30018	Round	Stainless Stl.	11 ¾ dia. x 4 ½	6 lb

Sample Jar

These wide-mouth, clear glass sample jars are used for storing samples obtained in the field. They have a white threaded metal cap with inner waxed liner. Sample jars have a capacity of 8 oz (0.23 kg), a diameter of 1⅞-in and height of 5¼-in. Supplied in a partitioned box of 12.

G-305 (only two shown)

G-305	8 oz Sample Jar, Box of 12 w/ Caps	8.0 lb
Related Item		
G-30510	Lid for G-305	

Sample Bags

Sample bags are made from high count drill cloth with a plastic lining. They have sewn seams and a cord drawstring. Stocked with plastic liners, unlined available upon request.

G-330, G-331

G-330	Sample Bag w/ plastic liner, 10 x 18 in	1.0 lb
G-331	Sample Bag w/ plastic liner, 17 x 32 in	1.0 lb

Sealing Paraffin

Used to seal soil samples in tubes. Made from a blend of microcrystalline paraffins, this sealer has the flexibility needed to ensure an efficient seal. Supplied in blocks of about 10 lb (4.5 kg).

G-298	Sealing Paraffin	11.0 lb

Sample Containers

Sample containers

The sample boxes are used for temporary preservation in moisture determination of soil samples. The lid fits on the bottom as well as the top. Available in two materials, drawn tin and heavy gauge aluminum. Sample cans are made from tinned steel and have a friction closing cover. The 1-gal plastic pail is made of HDPE.

G-31510	1.7-oz Alum. Sample Box w/ lid 2 in D x 1 in H 12 ea/box	1 lb
G-31530	3.9-oz Alum. Sample Box w/ lid 3 in D x 1 in H 12 ea/box	2 lb
G-31520	4.7-oz Alum. Sample Box w/ lid 2.5 in D x 1.75 in H 12 ea/box	1 lb
G-31540	10.7-oz Alum. Sample Box w/ lid 3.5 in D x 2 in H 12 ea/box	2 lb
G-32020	2-oz Tin Box, 2 in D x 1¼ in H, 12 ea/box	2 lb
G-32040	4-oz Tin Box, 2-7/16 in D x 1¾ in H, 12 ea/box	2 lb
G-32060	6-oz Tin Box, 2¾ in D x 2 in H, 12 ea/box	2 lb
G-32080	8-oz Tin Box, 3⅛ in D x 2⅛ in H, 12 ea/box	2 lb
G-32090	16-oz Tin Box, 4 in D x 2½ in H, 12 ea/box	3 lb
G-32100	80-oz Tin Sample Box, 6⅛ in D x 5 in H	8 oz
G-32110	160-oz Tin Sample Box, 8¼ in D x 7½ in H	2 lb
G-310	1-qt Sample Can, 4⅛ in D x 4⅞ in H	1 lb
G-311	4-qt Sample Can, 6⅝ in D x 7½ in H	1 lb
G-312	4-qt Sample Pail w/ lid, HDPE, 8.4 in D x 5.2 in H	1 lb

Timers

G-190 Stop Watch — One revolution of the large hand indicates 60 sec. 1/5 second increments. The small hand registers up to 30 minutes. G-19010 is the same but with 1/10 sec. increments.

P-400 Digital Timer/Clock/Stopwatch — Easy to set, large LCD displays hours, minutes and seconds, memory, alarm signals up to one minute, magnet mount, clip or stand, AAA battery included.

P-401 Long Ring Timer — Mechanical spring-wound, 60 minute capability, lies flat, stands or hangs.

P-402 Digital 24 Hour Timer — Large LCD display, flashing light and volume controlled alarm, repeat cycle memory, counts in one second increments, splash-proof keypad, non-skid rubber feet or wall mount, 4 "C" batteries included, two year Limited Warranty.

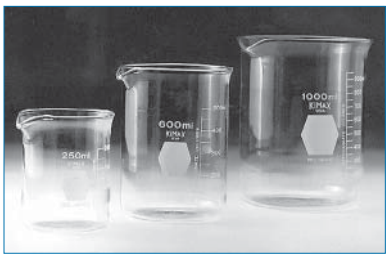
P-403 Digital Timer/Stopwatch — recall feature automatically displays the last timer settings, 18-inch Nylon® neck rope.

P-400 P-402 G-190

G-190	Stop Watch, 1/5 sec.
G-19010	Stop Watch, 1/10 sec.
P-400	Digital Timer / Clock / Stopwatch
P-402	Digital Timer, 20-hr count-down

Glass Beakers

These Kimax brand Glass Beakers are made from borosilicate glass with a contoured lip for easy pouring. They have a very high resistance to chemicals and a safe temperature limit of approximately 932°F (500°C).



Glass Beakers

Glass Beakers		
G-35110	100 ml Glass Beaker	1.0 lb
G-35125	250 ml Glass Beaker	1.0 lb
G-35140	400 ml Glass Beaker	1.0 lb
G-35160	600 ml Glass Beaker	1.0 lb
G-35210	1000 ml Glass Beaker	2.0 lb
G-35220	2000 ml Glass Beaker	2.0 lb

Plastic Dispensing Bottles

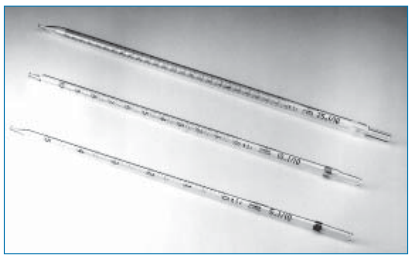
Dispensing Bottles made from flexible, non-toxic, non-contaminating polyethylene have many uses in the laboratory. They are resistant to most chemicals at room temperature. Water absorption is less than 0.01%. They may be used within temperatures of 176°F (86°C) and -1480°F (-1000°C).

G-340 or G-341

G-340	8 oz. Plastic Dispensing Bottle	1.0 lb
G-341	16 oz. Plastic Dispensing Bottle	1.0 lb

Measuring Pipettes

These Measuring Pipettes are Corning Glass, Mohr type with Accu-Red™ markings and graduations. They are calibrated at 68°F



Measuring Pipettes

G-38005	5 ml Measuring Pipette, 0.1 ml div.	1.0 lb
G-38010	10 ml Measuring Pipette, 0.1 ml div.	1.0 lb
G-38025	25 ml Measuring Pipette, 0.1 ml div.	1.0 lb

Glass Graduated Cylinders

Made from borosilicate glass with graduated, circular divisions and double numbered to allow reading up or down. They have a very high resistance to chemicals and are calibrated to deliver the indicated capacities. A plastic guard is supplied with the 10 ml to 100 ml sizes.

Glass Graduated Cylinders

Glass Graduated Cylinders		
G-36010	10 ml Graduated Cylinder, 0.2 ml div.	1.0 lb
G-36025	25 ml Graduated Cylinder, 0.5 ml div.	1.0 lb
G-36050	50 ml Graduated Cylinder, 1 ml div.	1.0 lb
G-36110	100 ml Graduated Cylinder, 1 ml div.	1.0 lb
G-36125	250 ml Graduated Cylinder, 2 ml div.	2.0 lb
G-36150	500 ml Graduated Cylinder, 5 ml div.	2.0 lb
G-36210	1000ml Graduated Cylinder, 10ml div.	3.0 lb
G-36220	2000ml Graduated Cylinder, 20ml div.	5.0 lb

Plastic Graduated Cylinders

Polypropylene construction with a tip and roll proof octagonal base and generous pouring spout make these Graduated Cylinders the choice for many testing laboratories. They are non-toxic, non-contaminating and will withstand nearly all chemicals at room temperature for 24 hours. They are autoclavable and will absorb less than 0.02% water. Usable between 266°F (135°C) and 32°F (0°C). The double scale graduations with double numbering for up and down reading are molded in for easy reading.

Plastic Graduated Cylinders

G-37025	25 ml Plastic Graduated Cylinder, 0.5 ml div	1.0 lb
G-37110	100 ml Plastic Graduated Cylinder, 1 ml div.	1.0 lb
G-37125	250 ml Plastic Graduated Cylinder, 2 ml div.	1.0 lb
G-37150	500 ml Plastic Graduated Cylinder, 5 ml div.	1.0 lb
G-37210	1000 ml Plastic Graduated Cylinder, 10 ml div.	1.5 lb
G-37220	2000 ml Plastic Graduated Cylinder, 10 ml div.	2.0 lb

Gloves

For hand protection in the laboratory when using ovens or in the field when working with compaction or concrete samples.

G-530

Select the High Temperature Cotton Gloves made from Kelnit Terrycloth, 100% cotton. One size only (12-in L).

G-530	High Temperature Cotton Gloves, pair	1.0 lb

Evaporating Dishes

Evaporating Dishes

The Evaporating Dishes are made from glazed porcelain and are used to hold samples under high heat conditions. The dishes have a lip for easy pouring.

G-384	Evaporating Dish, 80 ml, 3-1/8 in OD	3.0 oz
G-385	Evaporating Dish, 120 ml, 3-5/8 in OD	3.25 oz
G-386	Evaporating Dish, 250 ml, 4-5/8 in OD	4.0 oz
G-387	Evaporating Dish, 385 ml, 5-7/8 in OD	4.5 oz
G-388	Evaporating Dish, 765 ml, 7-3/8 in OD	7.5 oz

Ceramic Crucibles

Crucibles

Designed for high temperature fusion and incineration in an oven or furnace. They are made from glazed ceramic material and are available in various sizes.

1100°C heating capacity.

Crucibles		
G-391	50 ml Ceramic Crucible, 61 x 37 mm*	1.0 lb
G-392	100 ml Ceramic Crucible, 76 x 46 mm*	1.0 lb
G-393	150 ml Ceramic Crucible, 84 x 52 mm*	1.0 lb
G-394	250 ml Ceramic Crucible, 102 x 60 mm*	2.0 lb

(*) Diameter x Height

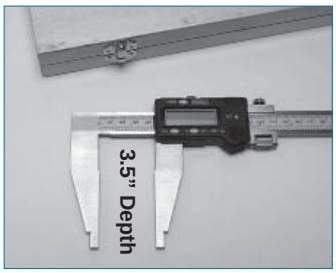
Paint/Film Thickness Gauge

G-205

Magnetic gauge measures the thickness of non-ferrous dry coatings (paint, plating, plastics, etc.) on steel. Range: 1 to 15 mils. Two scales give accuracy of better than .001 in. Does not work with rebar.

G-205	Paint/Film Thickness Gauge	5 lb

Deep-Jaw Digital Caliper



G-198

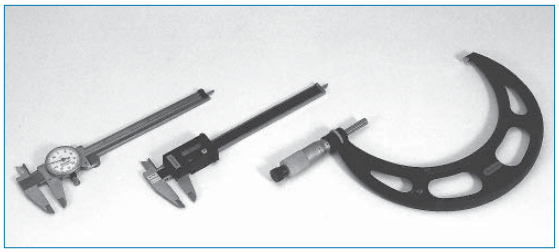
Jaw depth: 3.5 in

Range: 0-12 in / 300 mm.

Resolution: .0005 in / .01 mm

Full size .0005-in digital display

G-198	Digital Caliper, 0-12", 3.5" jaw depth, w/ case	5 lb


(L-R): G-192, G-194, G-191

Dial Caliper

Use for measuring inside and outside lengths in inch units with readings taken from the sliding bar scale and the dial indicator. Measurements may be made with one hand, using a thumb roller for fine adjustments and a thumb screw to lock the jaws. Bar graduations are 0.1 in, the dial indicator 0.001 inch graduations and one revolution corresponds to 0.1 in. Available in 6- and 12-in lengths in a protective case. 6-in version is provided with a depth rod. The depth rod is an option on the 12-in model.

Digital Dial Caliper

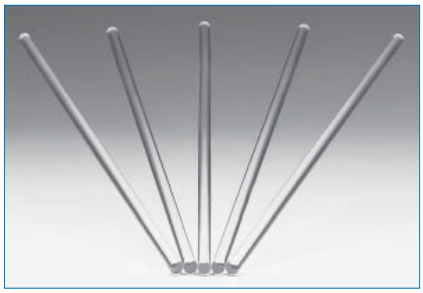
Used for measuring inside and outside lengths in inch or metric units with readings displayed on an LCD readout. Made from hardened stainless steel with knife edge contacts. Readout provided with a push button to change units and an outlet jack for downloading data to a computer or data logger. Readout can be set to zero at any position, hold or peak at low or high readings. Depth rod attachments available. Ranges are 0-12 or 6-300 mm with an accuracy of ±0.001 in or ±0.025 mm. Readout resolution is 0.0005 in or 0.012 mm. Operates on two 1.5-volt batteries and supplied in a protective case.

Outside Micrometer Caliper

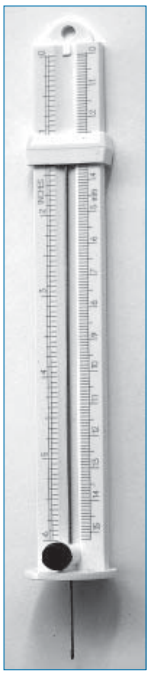
Ideal for taking measurements on 6-in concrete cylinders and cubes. This caliper has a measurement range between 5.5 in and 6.5 in with a resolution of 0.001 in. The frame is made from forged steel with a black enamel finish. The standard jaw depth of the calipers are from 1.75 - to - 2 in. All numbers and graduations are etched for easy reading and durability. Supplied in a protective case.

Calipers		
G-191	Outside Micrometer Caliper, 5.5 to 6.5 in, w/ case	3 lb
G-192	Dial Caliper, 0-6 in, w/ case	3 lb
G-19299	Depth Rod for 6-in Caliper (detachable)	
G-193	Dial Caliper, 0-12 in, w/ case	3 lb
G-19399	Depth Rod for 12-in Caliper (detachable)	
G-194	Digital Caliper, 0-6 in, w/ case	3 lb
G-195	Digital Caliper, 0-8 in, w/ case	3 lb
G-197	Digital Caliper, 0-12 in, w/ case	3 lb
G-19100	NIST Traceable Calibration	

Spatulas, l-r, G-29303, G-29302, G-29301, G-29304



Glass Rods, G-35000



Fireproofing Depth Gauge, G-200

Cast Aluminum Scoops

Ladle, G-29105, Spoon G-29101

Water Dispenser, G-520

Miscellaneous General Items				
Model	**Description**	**Application**	**Materials**	**Weight**
G-200	Fireproofing Depth Gauge, dual scale: 0-6 in. or 0-150 mm.	Measuring thickness of fireproofing material	2 pc. molded plastic, w/ stainless steel penetration needle and locking screw.	0.5 lb
G-29201	Round-Bottom Scoop	For handling concrete, sand and soils	Cast aluminum, 1½ in deep bowl, 4¾ L x 3 in W	1 lb
G-29202	Large Round-Bottom Scoop #2	For handling concrete, sand and soils	Cast aluminum, 1½ in deep bowl, 4¾ L x 3 in W	1 lb
G-29203	Small Flat-Bottom Scoop	For handling concrete, sand and soils	Cast aluminum, 2½ in deep bowl, 8 L x 5 in W	1 lb
G-29204	Medium Round-Bottom, #1 Scoop	For handling concrete, sand and soils	Cast aluminum, 1 in deep bowl, 5½ L x 3½ in W	1 lb
G-29205	X-Large Round-Bottom, #3 Scoop	For handling concrete, sand and soils	Cast aluminum, 2½ in deep bowl, 6½ L x 3½ in W	2 lb
G-29207	Large Flat-Bottom Scoop	For handling asphalt and filling molds	Cast aluminum, 3½ in deep bowl, 10 L x 5½ in W	2 lb
G-29226	Large Flat-Bottom Stainless Steel Scoop	For handling asphalt and filling molds	Stainless steel, 1¾ in deep, 10 in L, 7 in W	3 lb
G-29105	Stainless Steel Ladle, 8 oz	For transporting material from a warming pot	Stainless steel, 12 in long	1 lb
G-29101	Stainless Steel Sampling Spoon	For mixing and transferring soils and handling corrosive chemicals	Stainless steel, 11¾ in long	1 lb
G-29303	Large Round-Tip Spatula	Mixing and transferring materials	Flexible stainless steel blade with wood handle, 1⅜ x 10 in	1 lb
G-29302	Medium Round-Tip Spatula	Mixing and transferring materials	Flexible stainless steel blade with wood handle, 1 x 6 in	1 lb
G-29301	Small Round-Tip Spatula	Mixing and transferring materials	Flexible stainless steel blade with wood handle, ¾ x 4 in	1 lb
G-29304	Wide-End Spatula	Mixing and transferring materials	Flexible carbon steel blade with wood handle, 1¼ x 4 in	1 lb
G-35000	Glass Stirring Rod, 10 x 300 mm, 5/pkg.	Mixing materials	Glass	1 lb

Rubber Mallet, G-510

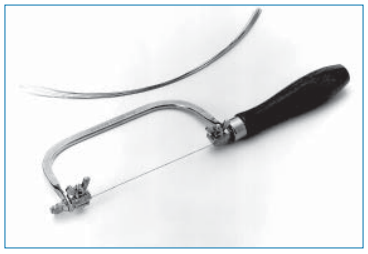
Chisel, G-515

Soil Mortar & Pestle

Density Pick, G-500

Prep. Knives, G-29402, G-29401

Brushes, l to r, G-29001, G-29002, G-29003


Open Wire Saw, G-295

Miscellaneous General Items				
Model	Description	Application	Materials	Weight
G-500	Density Pick	Removal of soil from a density hole	Carbon steel w/ 12- in fiberglass handle	3.0 lb
G-510	Rubber Mallet	Releasing samples from molds	1-lb rubber head, 9½-in handle	3.0 lb
G-515	Chisel	Removal of heavily compacted material from a density hole	Hardened steel with 1-in blade	3.0 lb
G-29402	Large Preparation Knife	For preparing samples and general laboratory use	Thin steel blade,sharp one side, 11 in L, wood handle	1.0 lb
G-29401	Small Preparation Knife	For preparing samples and general laboratory use	Thin steel blade,sharp one side, 7 in L, wood handle	1.0 lb
G-29001	Dusting Brush	For cleaning lab equipment and apparatus	Fiber bristles on a wood handle, 1/4 x 8 x 15 in	1.0 lb
G-29002	Table Brush	Dusting larger areas	Horsehair on a plastic handle, 2 x 8 x 12 in	1.0 lb
G-29003	Wire Scratch Brush	Preparation of cement specimens	#26 ga. wire bristles in 50 grps. of 10, 2 5/8 x 7 3/4 in	2.0 lb
G-295	Open Wire Saw w/6 Blades	For trimming soil test specimens	Steel frame, wood handle, 2-1/2 in W x 4-1/2 in L	1.0 lb
G-535	Laboratory Tongs	Handling hot items	Nickel plated steel, rivet joint, serrated/tapered tips	1.0 lb
G-296	Triangular Plasterer's Type Trowel	Mixing cement test batches and filling molds	Steel blade on wood handle, 2-3/4 in W x 5-1/2 in L	1.0 lb
P-420	Soil Pestle	Use with P-421 to pulverize soil	Rubber round tip on an 8 in wood handle	1.0 lb
P-42001	Ceramic Pestle	Use with P-421 to pulverize hard or granular materials	All ceramic with ground end	1.0 lb
P-421	Soil Mortar	Use with P-420 to pulverize soil	Heavy porcelain, glazed inside, 5 in D, 2-1/2 in H	1.0 lb
G-520	Water Dispenser	For adding water to soils when mixing for compaction or remolding	Rubber bulb with 7 in stem	1.0 lb