

## 1. Drying Laboratory Ovens

### Despatch LBB Series Ovens

### CONTROLS H & Q Series Ovens

NZS 4402.2.1 | NZS 4407.3.1



#### **LBB1-69-3**

Despatch LBB 195L Capacity Forced Convection Lab Oven  
- temperatures up to 204°C (400°F)  
- chamber size: 76 x 46 x 56 cm (WxDxH)  
- overall size: 92 x 65 x 92 cm (WxDxH)  
- 2 plated shelves, 91 kg cap. per shelf (max. 10 shelves)  
- excellent heat uniformity (+/- 3°C at 150°C)  
2.4 kW, 240 V, 50/60 Hz, 10.8 Amps, 1 Ph

#### **LBB2-12-3**

Despatch LBB 343L Capacity Forced Convection Lab Oven  
- temperatures up to 204°C (400°F)  
- chamber size: 76 x 51 x 89 cm (WxDxH)  
- overall size: 91 x 71 x 130 cm (WxDxH)  
- 2 plated shelves, 91 kg cap. per shelf (max. 16 shelves)  
- excellent heat uniformity (+/- 3°C at 150°C)  
3.6 kW, 240 V, 50/60 Hz, 16.6 Amps, 1 Ph

#### **LBB2-18-3**

Despatch LBB 510L Capacity Forced Convection Lab Oven  
- temperatures up to 204°C (400°F)  
- chamber size: 94 x 61 x 89 cm (WxDxH)  
- overall size: 109 x 81 x 130 cm (WxDxH)  
- 2 plated shelves, 91 kg cap. per shelf (max. 16 shelves)  
- excellent heat uniformity (+/- 3°C at 150°C)  
3.6 kW, 240 V, 50/60 Hz, 16.7 Amps, 1 Ph

#### **LBB2-27-3**

Despatch LBB 784L Capacity Forced Convection Lab Oven  
- temperatures up to 204°C (400°F)  
- chamber size: 94 x 94 x 89 cm (WxDxH)  
- overall size: 109 x 114 x 130 cm (WxDxH)  
- 2 plated shelves, 91 kg cap. per shelf (max. 16 shelves)  
- excellent heat uniformity (+/- 3°C at 150°C)  
4.8 kW, 240 V, 50/60 Hz, 21.7 Amps, 1 Ph

#### **10-D1390/10H**

CONTROLS H Series High-precision 100L cap. lab oven  
- Max. temperature 200°C, Rated power 1300W  
- Internal dim. 440 x 461 x 492 mm (wxdxh)  
- External dim. 722 x 623 x 750 mm (wxdxh)  
- Comes with 2 shelves, 30 kg cap. per shelf (max. 2 shelves)  
- Fully conforms to the main international standards  
230V/50-60Hz/1Ph

#### **10-D1390/25H**

CONTROLS H Series High-precision 250L cap. lab oven  
- Max. temperature 200°C, Rated power 2000W  
- Internal dim. 671 x 571 x 638 mm (wxdxh)  
- External dim. 953 x 733 x 890 mm (wxdxh)  
- Comes with 2 shelves, 30 kg cap. per shelf (max. 4 shelves)  
- Fully conforms to the main international standards  
230V/50-60Hz/1Ph

#### **10-D1390/45H**

CONTROLS H Series High-precision 450L cap. lab oven  
- Max. temperature 200°C, Rated power 2500W  
- Internal dim. 761 x 621 x 958 mm (wxdxh)  
- External dim. 1043 x 781 x 1210 mm (wxdxh)  
- Comes with 2 shelves, 30 kg cap. per shelf (max. 6 shelves)  
- Fully conforms to the main international standards  
230V/50-60Hz/1Ph

#### **10-D1398**

CONTROLS Q Series High-precision 780L cap. lab oven  
- Max. temperature 200°C, Rated power 4200W  
- Internal dim. 810 x 800 x 1200 mm (wxdxh)  
- External dim. 1235 x 1180 x 1450 mm (wxdxh)  
- Comes with 2 shelves, 30 kg cap. per shelf (max. 8 shelves)  
- Fully conforms to the main international standards  
380V/50Hz/3Ph

## 2. Test Sieves

### Endecotts Sieve Sets



- 200SIW.063**  
200mm dia. x 63mic Stainless Steel Woven Wire
- 200SIW.075**  
200mm dia. x 75mic Stainless Steel Woven Wire
- 200SIW.090**  
200mm dia. x 90mic Stainless Steel Woven Wire
- 200SIW.150**  
200mm dia. x 150mic Stainless Steel Woven Wire
- 200SIW.212**  
200mm dia. x 212mic Stainless Steel Woven Wire
- 200SIW.300**  
200mm dia. x 300mic Stainless Steel Woven Wire
- 200SIW.425**  
200mm dia. x 425mic Stainless Steel Woven Wire
- 200SIW.600**  
200mm dia. x 600mic Stainless Steel Woven Wire
- 200SIW1.18**  
200mm dia. x 1.18mm Stainless Steel Woven Wire
- 200SIW2.00**  
200mm dia. x 2.00mm Stainless Steel Woven Wire
- 200SIW2.36**  
200mm dia. x 2.36mm Stainless Steel Woven Wire
- 200SIW3.35**  
200mm dia. x 3.35mm Stainless Steel Woven Wire
- 200SIS4.75**  
200mm dia. x 4.75mm Stainless Steel Perforated Plate
- 200SIS6.70**  
200mm dia. x 6.70mm Stainless Steel Perforated Plate
- 200SIS9.50**  
200mm dia. x 9.50mm Stainless Steel Perforated Plate
- 200SIS13.2**  
200mm dia. x 13.2mm Stainless Steel Perforated Plate
- 200SIS19.0**  
200mm dia. x 19.0mm Stainless Steel Perforated Plate
- 200S/STLID**  
200mm dia. Lid Stainless Steel
- 200S/STREC**  
200mm dia. Receiver Stainless Steel

### CONTROLS Sieve Sets

NZS 4402.2.8 | NZS 4407.3.8



- 15-D2335/J**  
200 mm dia ISO (BS,UNI,NF,DIN) sieve op.63 microns
- 15-D2330/J**  
200 mm dia ISO (BS,UNI) sieve op.75 microns
- 15-D2320/J**  
200 mm dia ISO (BS,UNI,NF,DIN) sieve op.90 microns
- 15-D2300/J**  
200 mm dia ISO (BS) sieve op.150 microns
- 15-D2280/J**  
200 mm dia ISO (BS) sieve op.212 microns
- 15-D2270/J**  
200 mm dia ISO (BS) sieve op.300 microns
- 15-D2250/J**  
200 mm dia ISO (BS) sieve op.425 microns
- 15-D2240/J**  
200 mm dia ISO (BS) sieve op.600 microns
- 15-D2210/J**  
200 mm dia ISO (BS) sieve op.1,18 mm
- 15-D2185/J**  
200 mm dia ISO (BS,UNI,NF,DIN) sieve op.2,00 mm
- 15-D2180/J**  
200 mm dia ISO (BS) sieve op.2,36 mm
- 15-D2160/J**  
200 mm dia ISO (BS) sieve op.3,35 mm
- 15-D2545/J**  
200 mm dia ISO (BS) sieve op.4,75 mm perf. plate
- 15-D2525/J**  
200 mm dia ISO(BS)sieve op.6,7 mm perf. plate
- 15-D2510/J**  
200 mm dia ISO(BS)sieve op.9,5 mm perf. plate
- 15-D2490/J**  
200 mm dia ISO(BS) sieve op.13,2 mm perf. plate
- 15-D2475/J**  
200 mm dia ISO(BS)sieve op.19 mm perf. plate
- 15-D2002/J**  
Cover only 200 mm dia.
- 15-D2003/J**  
Pan only 200 mm dia.

**Endecotts Sieve Sets**

**CONTROLS Sieve Sets**

**NZS 4402.2.8 | NZS 4407.3.8**



- 300SIW.063**  
300mm dia. x 63mic Stainless Steel Woven Wire
- 300SIW.075**  
300mm dia. x 75mic Stainless Steel Woven Wire
- 300SIW.090**  
300mm dia. x 90mic Stainless Steel Woven Wire
- 300SIW.150**  
300mm dia. x 150mic Stainless Steel Woven Wire
- 300SIW.212**  
300mm dia. x 212mic Stainless Steel Woven Wire
- 300SIW.300**  
300mm dia. x 300mic Stainless Steel Woven Wire
- 300SIW.425**  
300mm dia. x 425mic Stainless Steel Woven Wire
- 300SIW.600**  
300mm dia. x 600mic Stainless Steel Woven Wire
- 300SIW1.18**  
300mm dia. x 1.18mm Stainless Steel Woven Wire
- 300SIW2.00**  
300mm dia. x 2.00mm Stainless Steel Woven Wire
- 300SIW2.36**  
300mm dia. x 2.36mm Stainless Steel Woven Wire
- 300SIW3.35**  
300mm dia. x 3.35mm Stainless Steel Woven Wire
  
- 300SIS4.75**  
300mm dia. x 4.75mm Stainless Steel Perforated Plate
- 300SIS6.70**  
300mm dia. x 6.70mm Stainless Steel Perforated Plate
- 300SIS9.50**  
300mm dia. x 9.50mm Stainless Steel Perforated Plate
- 300SIS13.2**  
300mm dia. x 13.2mm Stainless Steel Perforated Plate
- 300SIS19.0**  
300mm dia. x 19.0mm Stainless Steel Perforated Plate
- 300SIS26.5**  
300mm dia. x 26.5mm Stainless Steel Perforated Plate
- 300SIS37.5**  
300mm dia. x 37.5mm Stainless Steel Perforated Plate
- 300SIS53.0**  
300mm dia. x 53.0mm Stainless Steel Perforated Plate
- 300SIS63.0**  
300mm dia. x 63.0mm Stainless Steel Perforated Plate
- 300SIS75.0**  
300mm dia. x 75.0mm Stainless Steel Perforated Plate
  
- 300S/STLID**  
300mm dia. Lid Stainless Steel
- 300S/STREC**  
300mm dia. Receiver Stainless Steel

- 15-D3335/J**  
300 mm dia ISO(BS,UNI,NF,DIN) sieves op.63 microns
- 15-D3330/J**  
300 mm dia ISO(BS,UNI) sieve op.75 microns
- 15-D3320/J**  
300 mm dia ISO(BS,UNI,NF,DIN) sieve op.90 microns
- 15-D3300/J**  
300 mm dia ISO(BS) sieve op.150 microns
- 15-D3280/J**  
300 mm dia ISO(BS) sieve op.212 microns
- 15-D3270/J**  
300 mm dia ISO(BS) sieve op.300 microns
- 15-D3250/J**  
300 mm dia ISO(BS) sieve op.425 microns
- 15-D3240/J**  
300 mm dia ISO(BS) sieve op.600 microns
- 15-D3210/J**  
300 mm dia ISO(BS) sieve op.1,18mm
- 15-D3185/J**  
300 mm dia ISO(BS,UNI,NF,DIN) sieve op.2,0mm
- 15-D3180/J**  
300 mm dia ISO(BS) sieve op.2,36mm
- 15-D3160/J**  
300 mm dia ISO(BS) sieve op.3,35mm
  
- 15-D3545/J**  
300 mm dia ISO(BS) sieve op.4,75mm perf. plate
- 15-D3525/J**  
300 mm dia ISO(BS) sieve op.6,7mm perf. plate
- 15-D3510/J**  
300 mm dia ISO(BS) sieve op.9,5mm perf. plate
- 15-D3490/J**  
300 mm dia ISO(BS) sieve op.13,2mm perf. plate
- 15-D3475/J**  
300 mm dia ISO(BS) sieve op.19mm perf. plate
- 15-D3455/J**  
300 mm dia ISO(BS) sieve op.26,5mm perf. plate
- 15-D3440/J**  
300 mm dia ISO(BS) sieve op.37,5mm perf. plate
- 15-D3425/J**  
300 mm dia ISO(BS) sieve op.53mm perf. plate
- 15-D3420/J**  
300 mm dia ISO(BS,NF,DIN) sieve op.63mm perf. plate
- 15-D3415/J**  
300 mm dia ISO(BS) sieve op.75mm perf. plate
  
- 15-D3002/J**  
Cover only 300 mm dia.
- 15-D3003/J**  
Pan only 300 mm dia.

## Endecotts Sieve Sets

## CONTROLS Sieve Sets

NZS 4402.2.8 | NZS 4407.3.8



**450SIW2.00**

450mm dia. x 2.00mm Stainless Steel Woven Wire

**450SIW2.36**

450mm dia. x 2.36mm Stainless Steel Woven Wire

**450SIW3.35**

450mm dia. x 3.35mm Stainless Steel Woven Wire

**450SIS4.75**

450mm dia. x 4.75mm Stainless Steel Perforated Plate

**450SIS6.70**

450mm dia. x 6.70mm Stainless Steel Perforated Plate

**450SIS9.50**

450mm dia. x 9.50mm Stainless Steel Perforated Plate

**450SIS13.2**

450mm dia. x 13.2mm Stainless Steel Perforated Plate

**450SIS19.0**

450mm dia. x 19.0mm Stainless Steel Perforated Plate

**450SIS26.5**

450mm dia. x 26.5mm Stainless Steel Perforated Plate

**450SIS37.5**

450mm dia. x 37.5mm Stainless Steel Perforated Plate

**450SIS53.0**

450mm dia. x 53.0mm Stainless Steel Perforated Plate

**450SIS63.0**

450mm dia. x 63.0mm Stainless Steel Perforated Plate

**450SIS75.0**

450mm dia. x 75.0mm Stainless Steel Perforated Plate

**450SIS106.**

450mm dia. x 106mm Stainless Steel Perforated Plate

**450S/STLID**

450mm dia. Lid Stainless Steel

**450S/STREC**

450mm dia. Receiver Stainless Steel

**450S/STRECX90**

450mm dia. Receiver Stainless Steel Extra Deep 90mm

**15-D4185/J**

450 mm dia ISO(BS,UNI,NF,DIN) sieve op.2,0mm

**15-D4180/J**

450 mm dia ISO(BS) sieve op.2,36mm

**15-D4160/J**

450 mm dia ISO(BS) sieve op.3,35mm

**15-D4545/J**

450 mm dia ISO(BS) sieve op.4,75mm perf. plate

**15-D4525/J**

450 mm dia ISO(BS) sieve op.6,7mm perf. plate

**15-D4510/J**

450 mm dia ISO(BS) sieve op.9,5mm perf. plate

**15-D4490/J**

450 mm dia ISO(BS) sieve op.13,2mm perf. plate

**15-D4475/J**

450 mm dia ISO(BS) sieve op.19mm perf. plate

**15-D4455/J**

450 mm dia ISO(BS) sieve op.26,5mm perf. plate

**15-D4440/J**

450 mm dia ISO(BS) sieve op.37,5mm perf. plate

**15-D4425/J**

450 mm dia ISO(BS) sieve op.53mm perf. plate

**15-D4420/J**

450 mm dia ISO(BS,NF,DIN) sieve op.63mm perf. plate

**15-D4415/J**

450 mm dia ISO(BS) sieve op.75mm perf. plate

**15-D4405/J**

450 mm dia ISO(BS) sieve op.106mm perf. plate

**15-D4002/J**

Cover only 450 mm dia.

**15-D4003/J**

Pan only 450 mm dia.

### 3. Sample Washing

#### Wet Washing (Deep) Sieves - [NZS4402.2.8.1](#) | [NZS 4407.3.8.1](#)



**200SIW.075x100B**

200mm x 100mm x 75mic Woven Wire ISO Deep with Backing Mesh

**200SIW.075x200B**

200mm x 200mm x 75mic Woven Wire ISO Deep with Backing Mesh

**450SIW.075x300B**

450mm x 300mm x 75mic Woven Wire ISO Deep with Backing Mesh

#### Combination Washing Sieves - [NZS4402.2.8.1](#) | [NZS 4407.3.8.1](#)



**200SIW.075**

200mm dia. x 75mic Stainless Steel Woven Wire

**15-D2001/J**

Frame only 200 mm dia.

**300SIW.075**

300mm dia. x 75mic Stainless Steel Woven Wire

**15-D3001/J**

Frame only 300 mm dia.

#### Automatic Sample Washers - [NZS4402.2.8.1](#) | [NZS 4407.3.8.1](#)



**HM-52F**

Small Automatic Aggregate Washer (230V / 50Hz)

**HMA-260**

Small Wash Drum Only (spare or extra) 229x273 mm Dia. x H

- Automatically washes soils and aggregate samples to remove fines
- Designed for fines content determination or sample preparation for sieving
- Eliminates high cost and time required for manual methods
- Prevents loss of oversize material in decanted wash water
- Totally enclosed gear motor for drum rotation

**HM-57RF**

Large Automatic Aggregate Washer (230V / 50Hz)

**HMA-261**

Large Wash Drum Only (spare or extra) 304x330 mm Dia. x H

## 4. Weighing Balances

### ViBRA Laboratory Balances

### CONTROLS Laboratory Balances

NZS 4402 | NZS 4407



#### **HT224RCEN**

HT Series Analytical Balance 220g cap. x 0.1mg readability  
Repeatability: 0.05mg  
Pan size: 80mm dia.  
Internal calibration system

#### **11-D0613/B**

CONTROLS Analytical Balance 210g cap. x 0,1mg resolution  
± 0.3mg Accuracy  
Pan size: 80 mm dia.  
110-230V/50-60Hz/1ph

#### **ALE623R**

ALE series Digital Balance 620g cap. x 0.001g readability  
Repeatability: 0.001g  
Pan size: 118mm dia.  
RS232 and USB interface for data output to PC  
RTS Data-collecting Software

#### **11-D0630/05**

CONTROLS Digital Balance 520g cap. x 0.001g resolution  
RS232 serial output, complete with traceable calibration certificate. Battery (rechargeable) and mains operated.  
Pan size: 80 mm dia.  
110-230V/50-60Hz/1ph

#### **ALE6202R**

ALE series Digital Balance 6,200g cap. x 0.01g readability  
Repeatability: 0.01g  
Pan size: 180x160 mm  
RS232 and USB interface for data output to PC  
RTS Data-collecting Software  
**ALE-DU** Under-weighing hook

#### **11-D0630/4A**

CONTROLS Digital Balance 4,200g cap. x 0.01g resolution  
RS232 serial output, under balance weighing facility (hook included) complete with traceable calibration certificate.  
Battery (rechargeable) and mains operated.  
Pan size: dia. 130 mm  
110-230V/50-60Hz/1ph

#### **ALE15001R**

ALE series Digital Balance 15,000g cap. x 0.1g readability  
Repeatability: 0.1g  
Pan size: 180x160 mm  
RS232 and USB interface for data output to PC  
RTS Data-collecting Software  
**ALE-DU** Under-weighing hook

#### **11-D0630/15A**

CONTROLS Digital Balance 15,000g cap. x 0.1g resolution  
RS232 serial output, under balance weighing facility (hook included) complete with traceable calibration certificate.  
Battery (rechargeable) and mains operated.  
Pan size: 225x300 mm  
110-230V/50-60Hz/1ph

#### **HJ33K0.1SR**

HJK-R series Digital Balance 33kg cap. x 0.1g readability  
Repeatability: 0.1g  
Pan size: 400 x 350mm, detached pan  
Stainless steel construction  
IP65 water and dust protection  
**HJKUH** Under weighing hook

#### **11-D0630/30**

CONTROLS Digital Balance 30,000g cap. x 0.5g resolution  
RS232 serial output, under balance weighing facility (hook included) complete with traceable calibration certificate.  
Battery (rechargeable) and mains operated.  
Pan size: 225x300 mm  
110-230V/50-60Hz/1ph

#### **HJ62K0.1DSR**

HJK-R series Digital Balance 6/62kg cap. x 0.1/1g readability  
Repeatability: 0.1g/0.7g  
Pan size: 400 x 350mm, detached pan  
Stainless steel construction  
IP65 water and dust protection  
**HJKUH** Under weighing hook

#### **11-D0630/60A**

CONTROLS Digital Balance 60,000g cap. x 1g resolution  
RS 232 serial output, complete with traceable calibration certificate. Platform model with column and display. Battery (rechargeable) and mains operated.  
Pan size: 450x600 mm  
110-230V/50-60Hz/1ph

## 5. Sample Size Reduction

### Quartering - NZS 4402.1.6 | NZS 4407.2.7



#### HM-275: Quartering Cloth Kit

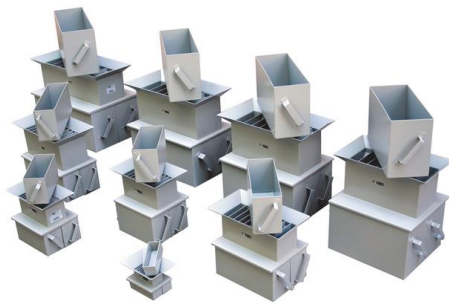
Kit includes:

- Quartering Cloth is a 6x8ft, heavy-duty, finished canvas.
- Square-Point Shovel has a 9.75x12in (248x305mm) blade and a 30in (762mm) D-handle.
- Broom is 16in (406mm) wide and has a 4ft (1.2m) handle.  
Made of wood with a brown Prolene plastic brush head, this durable broom is ideal for heavy sweeping.

Used for standard sampling and splitting procedures for aggregates as described in ASTM C702 and AASHTO T 248. Kit components can also be ordered separately.

### Sample Dividers - NZS 4402.1.6 | NZS 4407.2.7

#### Riffle boxes



Product code	Max. sample size mm	Slot width mm	Number of slots	Weight kg
<b>15-D0438</b>	5	7	12	1.5
<b>15-D0438/A</b>	10	15	12	5
<b>15-D0438/B</b>	20	30	10	19
<b>15-D0438/C</b>	40	50	8	23.5
<b>15-D0438/G</b>	50	64	8	27

#### Large Capacity Sample Splitter



- For aggregates up to 150 mm size
- Adjustable openings from 12.5 mm with 12.5 mm increments
- Clam shell hopper 28 dm<sup>3</sup> capacity
- Complete with two pans
- Dimensions: 720 x 464 x 745 mm (W x D x H)
- Weight approx.: 37 kg

**15-D0430/A:** Large capacity sample splitter with adjustable opening from 12.5 to 150 mm, complete with 2 pans

**15-D0430/A1:** Spare material pan for 15-D0430/A sample splitter

## 6. Water Content

### Moisture Content Tins & Cans - NZS 4402.2.1 | NZS 4407.3.1



**G-D1332/NZ:** Moisture content tin 75 x 50 mm (single)

**G-D1333/NZ:** Moisture content tin 100 x 50 mm (single)

**G-D1334/NZ:** Moisture content tin 100 x 115 mm (single)



**86-D1329/A:** Moisture content tin 75 mm dia. x 30 mm, pack of 6



**86-D1330/A:** Moisture content tin 55 mm dia. x 35 mm, pack of 6

**86-D1331/A:** Moisture content tin 55 mm dia. x 65 mm, pack of 6



**86-D1341:** Aluminium field can, 3 liters capacity

**86-D1342:** Aluminium field can, 5 liters capacity

**86-D1345:** Lever lid tin, 0.5 liter capacity

**86-D1346:** Lever lid tin, 1 liter capacity

**86-D1347:** Lever lid tin, 2.5 liter capacity

**86-D1348:** Lever lid tin, 5 liter capacity

**86-D1349:** Lever lid tin, 10 liter capacity



**86-D1605/2:** Flat aluminium scoop, 290x105 mm, 440 ml capacity



**LH-1351-210:** Desiccator with porcelain plate 210 mm dia.

**86-D0819:** Silica gel desiccant with indicator. 1000 g bottle.



## 7. Cone Penetration Limit

### Apparatus - NZS 4402.2.5 | NZS 4407.3.2

**22-T0040/4:** Glass plate 500x500x10 mm

**86-D1630:** Stainless flexible spatula, 100 mm blade length

**86-D1631:** Stainless flexible spatula, 160 mm blade length

**86-D1625:** Rectangular trowel, 120x250 mm

**86-D1172:** Evaporating dish 160 mm dia.

**86-D1537:** Wash bottle 500 ml cap.

**86-D1346:** Lever lid tin, 1 l capacity



**22-T0029/D:** Digital liquid limit penetrometer with micrometric vertical adjustment

**22-T0029/E:** Semiautomatic digital liquid limit penetrometer with micrometric vertical adjustment  
230 V, 50-60 Hz, 1ph



**22-T0029/1:** Penetration cone 30° tip and 80g of weight, to EN 17892-12, CEN ISO/TS 17892-6 and -12 and BS 1377-2

**22-T0029/9:** Cone test gauge 1.75 mm thickness for 30° tip angle to BS 1377-2, CEN ISO/TS 17892-6 and -12

**22-T0029/3:** Penetration sample cup 55 mm dia., 40 mm deep

**G-T0099/A:** Plated Steel Straight Edge 150mm long

## 8. Determination of Liquid Limit by Casagrande Method

### Apparatus – NZS 4402.2.2



**G-CL20110NB:** Liquid limit (Casagrande) manual device complete with NZS calibration

**22-T0032/P:** Plastic grooving tools to BS 1377-2, pack of 10

**22-T0032:** Steel grooving tool to BS 1377-2

Optional:

**22-T0033:** Steel grooving curved tool to AASHTO - UNI

**CL20120:** Brass grooving tool to AS



**22-T0040/4:** Glass plate 500x500x10 mm

**86-D1631:** Stainless flexible spatula, 160 mm blade length

**86-D1630:** Stainless flexible spatula, 100 mm blade length

**86-D1625:** Rectangular trowel, 120x250 mm

**86-D1172:** Evaporating dish 160 mm dia.

**86-D1537:** Wash bottle 500 ml cap.

**86-D1346:** Lever lid tin, 1 l capacity

BS and ASTM device models also available.

## 9. Plastic Limit

Apparatus - NZS 4402.2.3 | NZS 4407.3.3



**22-T0041/A:** Plastic limit set, including (available individually):

- **22-T0040/1:** Plastic limit glass plate, 300x300 mm
- **22-T0040/2:** Stainless steel rod 3 mm dia.
- **86-D1171:** Mixing dish 120 mm dia.
- **86-D1630:** Stainless flexible spatula, 100 mm blade length
- **86-D1329/A:** Moisture content tin 75 mm dia. x 30 mm, pack of 6

All contained in a plastic carrying case

or

**22-T0041:** Plastic limit set without a carrying case

**22-T0040/4:** Glass plate 500x500x10 mm

**86-D1537:** Wash bottle 500 ml cap.

## 10. Linear Shrinkage

### Apparatus - NZS 4402.2.6



**22-T0037:** Linear shrinkage mould to BS 1377:2  
Made from brass, 140 mm long, 12.5 mm radius

**22-T0035:** Shrinkage limit set, contained in a plastic case  
Includes (all items can be purchased individually):

**22-T0035/1:** Shrinkage dish 45 mm dia. x 12.7 mm high. (two of)

**22-T0035/2:** Crystallizing dish, 57 mm dia. x 31 mm deep

**22-T0035/3:** Shrinkage prong plate. Manufactured from transparent acrylic and fit with 3 metal prongs

**86-D1171** Evaporating dish, low form with spout, 120 mm dia., 32 mm high

**86-D1630:** Stainless flexible spatula, 100 mm blade length

**86-D1001:** Graduated cylinder, 25 ml

**86-D1631:** Stainless flexible spatula, 160 mm blade length

**22-T0040/4:** Glass plate 500x500x10 mm



**4917480:** 150 mm Toledo Ruler

## 11. Clay Index

### Apparatus - NZS 4407.3.5



**G-CIKIT:** Clay Index test kit including (available individually):

**4x 212163605:** DURAN® Erlenmeyer flask 250 ml, narrow neck, with graduation

**G-D0439/25:** Methylene Blue 20g (**G-D0439/100:** 100g powder also available)

**47-D0439/C4:** Glass rod 300 x 8 mm dia.

**86-D1153:** Measuring pipette Mohr type 25 ml

**86-D1001:** Graduated glass cylinder 25 ml

**86-D1151:** Measuring pipette Mohr type 5 ml

**86-D1152:** Measuring pipette Mohr type 10 ml

**86-D1060:** Volumetric flask stoppered 250 ml

**86-D1052:** Volumetric flask unstoppered 1000 ml

**86-D1163:** Glass funnel 100 mm dia.

**86-D1093:** Reagent bottle 500 ml

**86-D1800:** Whatman paper No 1 x 150 mm dia. medium grade. Pack of 100.

**86-D1420:** Bunsen burner universal

**86-D1430:** Tripod dia. 100 mm x 150 mm height

**86-D1440:** Iron wire gauze with ceramic centre 150x150 mm

**47-D0439/C1:** 50 cc burette with stopcock

**47-D0439/C2:** Support base with clamp

**LH-1351-210:** Desiccator with porcelain plate 210mm

**86-D0819:** Silica gel desiccant with indicator. 1000 g bottle.

**LH-C-158:** Porcelain Pestle & Mortar 216 x 90 mm

**86-D1537:** Wash bottle 500 ml cap.



**ELSELECT40:** Elmasonic Select 40 heated ultrasonic bath 4 litre cap.

Tank internal dimensions: 215 x 115 x 145 mm (W x D x H)

Temperature: 25 – 80C°

Recommended operating capacity: 2.9 liters

Operating frequency: 37 kHz

5 ultrasonic cleaning modes: degas, eco, sweep, pulse and dynamic  
230V, 50Hz

## 12. Sand Equivalent

### Apparatus - NZS 4407.3.6



**G-T0050/KIT:** Sand Equivalent test kit to NZS 4407:2015, including (available individually):

2x **G-T0050/GTNZ:** Sand Equivalent cylinder with IANZ calibration

2x **47-T0050/2:** Rubber stopper for SE cylinder

**47-T0050/4NZ:** Sand equivalent siphon assembly to NZS 4407, composed by siphon tube (curved), irrigator tube (curved), short tube, rubber tube, perforated rubber bung and Mohr type metal sleeve

**G-T0050/12:** Sand measuring container 100 ml

**G-T0050/6NZ:** Weighted foot assembly

**86-D1546:** Plastic funnel wide mouth 120 mm dia.

**47-T0050/10:** Plastic jar 5L

**G-T0050/7/2L:** Calcium chloride solution 2 litre

Individual components:

**47-T0050/2NZ:** Sand equivalent graduated cylinder to NZS 4407

**47-T0050/5NZ:** Sand equivalent irrigator tube (curved) to NZS 4407



**47-T0056/B:** Motorized sand equivalent shaker  
230 V, 50 Hz, 1 ph

**47-T0056/C:** Motorized sand equivalent shaker  
with safety cover, conforming to CE directive the  
machine stops automatically when the safety  
cover is opened.  
230 V, 50 Hz, 1 ph

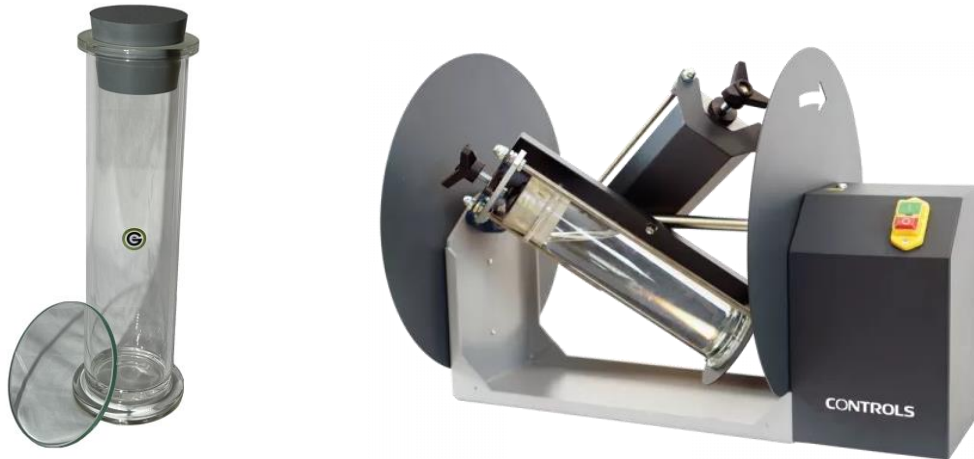
**213962408:** DURAN® Measuring cylinder 100 ml, hexagonal base, class B, white graduation

**82-D1231:** Digital stopwatch, 1/100th seconds stopwatch. Hours, minutes, seconds. Normal time. Date.

**MA-38:** Traceable Four-Channel Alarm Timer with NIST ISO A2LA Traceable Certificate

## 13. Solid Density of Particles

Apparatus - [NZS 4402.2.7.1](#) | [NZS 4407.3.7](#)



**G-D1132:** Glass gas jar, approx. 1L cap. with extra thick walls

**G-D1132/L:** Glass plate

**G-D1132/S:** Rubber stopper

**22-D0445/B:** Hand-over-hand shaker  
230 V, 50 Hz, 1 ph



**82-D1200:** Glass thermometer for general laboratory use  
Range -10 to +110°C, Grad. 1°C, Accuracy +/- 1°C



**11-D0612/C:** Specific gravity frame with plastic water tank included (balance not included)

**11-D0612:** Density basket 200 mm dia. x 200 mm high, stainless steel with 3.35 mm mesh opening

**11-D0612/1:** Density basket 250 mm dia. x 250 mm high, stainless steel with 3.35 mm mesh opening

## 14. Solid Density of Medium and Fine Soil Particles

### Apparatus - NZS 4402.2.7.2



**G-D1128:** Density pycnometer 250ml, flat bottom rotovap flask

**G-D1129:** Density pycnometer 500ml, flat bottom rotovap flask

**G-D1130:** Fine bore stopper, capillary tube for drawing vacuum



**ST26:** Grant Optima™ Bath Tank 26L, Stainless Steel with a drain tap

**T100:** Heating Circulator, Range ambient +5°C to 100°C  
Stability ±0.05°C, Uniformity ±0.1°C  
230V 50Hz

**C1G:** Refrigerated immersion cooler, CFC free, Range 0°C to 40°C  
230V 50Hz

**STL26:** Gabled Lid with Hinges, Stainless Steel for ST26 bath

**RS28:** Stainless steel raised shelf (h 45 or 135mm) for ST26 bath



**76-B0066/B:** Digital recirculating water bath, 30 liters cap.  
Temperature range: ambient to 60°C, Accuracy ±1°C  
230 V, 50-60 Hz, 1 ph

**76-B0066/1:** Cover with a cooling coil

**76-B0066/2:** Adjustable bath tray

**ALE6202R:** ViBRA ALE series Digital Balance 6,200g cap. x 0.01g readability



**RVD-RND70:** Dry Piston Vacuum Pump, 70 LPM, 750 mmHg  
200 W, 230 V, 50 Hz

**VSV-Manifold:** 1/4" manifold with needle (flow control) valve, indicator gauge connection and single 6mm outlet

**3063D01:** 63mm Capsule -100/0 kPa Vacuum Gauge SS Case, Brass Internals, Bottom Entry, 1/4" BSPT  
(IANZ gauge calibration available on request)

**VSV-Hose:** 6mm I.D. silicone hose, 1 m length

**1042379S:** Precision laboratory thermometer ACCU-SAFE  
Capillary white background, blue liquid filling, stem form  
Range: -10 +50°C, Scale in 0.1°C, Accuracy: ±0.2°C  
Total length: 440 mm, immersion depth: total  
Suitable for calibration

**86-D1538:** Plastic wash bottle, 1000 ml capacity  
**WWD001:** Water Wizard Counter Distiller 4L cap.  
800W, 220/240V, 50Hz

**G-D1333/NZ:** Moisture content tin 100 x 50 mm

**G-D1334/NZ:** Moisture content tin 100 x 115 mm



## 15. Particle Size Distribution by Wet/Dry Sieving

### Apparatus - NZS 4402.2.8.1 / 2 | NZS 4407.3.8.1 / 2



- 86-D1308/5:** Stainless steel pan with handles 350x260x60 mm
- 86-D1308/6:** Stainless steel pan 360x360x60 mm (no handles)
- 86-D1308/7:** Stainless steel pan with handles 400x280x65 mm
- 86-D1308/8:** Stainless steel pan with handles 450x320x85 mm
- 86-D1308/9:** Stainless steel pan with handles 500x360x93 mm
- 86-D1308/10:** Stainless steel pan with handles 600x400x95 mm



- SC-1:** Galvanized Iron Pan with handles 7.6L 457x457x38 mm
- SC-5:** Galvanized Iron Pan with handles 9.5L 254x508x76.5 mm
- SC-2:** Galvanized Iron Pan with handles 16L 457x457x76 mm
- SC-4:** Galvanized Iron Pan with handles 28L 609x609x76 mm
- SC-3:** Galvanized Iron Pan with handles 38L 609x609x101.6 mm



**MA-950:** Galvanized Steel Sample Bucket 13L

**HM-450:** Square Plastic Sample Bucket w/ lid 15L



- 86-D1601:** Round aluminium scoop, 245x80 mm, 325 ml capacity
- 86-D1602:** Round aluminium scoop, 335x120 mm, 1000 ml capacity
- 86-D1603:** Round aluminium scoop, 420x160 mm 2600 ml capacity
- 86-D1605/2:** Flat aluminium scoop, 290x105 mm, 440 ml capacity
- 86-D1605/3:** Flat aluminium scoop, 350x120 mm, 675 ml capacity
- 86-D1605/4:** Flat aluminium scoop, 400x160 mm, 1510 ml capacity



- 86-D1685:** Nylon sieve brush 33 mm dia.
- 86-D1675:** Round bristle brush, 33 mm dia.
- 86-D1672:** Soft hair brush, 3 mm dia. (BS 812)
- 86-D1673/G1:** Double ended brass/nylon sieve brush
- 86-D1685/G:** Double ended nylon sieve brush
- 86-D1680:** Flat bristle brush, 60 mm wide
- 86-D1670:** Wire brush, No. 26 gauge
- 86-D1673/G:** Brass sieve brush
- 86-D1671:** Fine wire brush
- 86-D1686:** Table brush

**Endecotts Sieve Shakers**



**MIN200/23050**

Minor M200 Sieve Shaker  
Up to 8x 200mm dia. sieves  
230 V, 50 Hz, incl. clamping belt system.

**EFL300/23050**

EFL 300 Sieve Shaker  
Up to 6x 300mm dia. sieves  
230 V, 50 Hz, incl. quick-release clamping system.

**T450/23050**

Titan 450 Sieve Shaker  
Up to 7x 450mm dia. sieves.  
230 V, 50 Hz, incl. turn-and-twist clamping system.



**15-D0407/B**

Electromagnetic sieve shaker for sieves up to 315 mm dia.  
Up to 12x 200mm or 8x 300mm dia. sieves  
230 V, 50-60 Hz, 1 ph

**15-D0410**

Electromechanical sieve shaker for sieves up to 315 mm dia.  
Up to 12x 200mm or 10x 300mm dia. sieves  
230 V, 50 Hz, 1 ph

**15-D0410/A**

Electromechanical sieve shaker for sieves up to 450 mm dia.  
Up to 10x 200mm, 8x 300mm or 6x 450mm dia. sieves  
220 V, 50 Hz, 1 ph

**C-SISHINC3: INCLYNO 3 Sieve Shaker**

Heavy duty floor mounted shaker  
to accept 14x200mm or 7x300mm or 5x450mm sieves.  
230V, 50Hz, 1 ph

**SS-22F: Gilson Silent Sifter® II**

Lower operational noise levels than any other rotary sifter  
Large swivel casters roll easily and lock securely  
Sieve Capacity: 6 full height 300mm diameter sieves  
230V / 50-60Hz



**TS-4F: Gilson Silent Testing Screen**

Screen tray capacity: 6 tray slots plus 1 for pan  
Hydraulic clamping  
Sound-dampened structure  
Integrated digital LED timer  
(230V / 50Hz)

## 16. Particle Size Distribution by Hydrometer Method

### Apparatus - NZS 4402.2.8.4



**22-D1006/A:** Hydrometer jar 1000ml, Graduated Glass Dia. 60mm, Height 430mm

**22-T0060/31:** Rubber bung for cylinder 22-D1006/A

**1042379S:** Precision laboratory thermometer ACCU-SAFE, Range: -10 +50°C, Scale in 0.1°C, Accuracy: ±0.2°C, Total length: 440 mm

**22-T0058/A:** Constant temperature water bath complete with heater, thermostat and circulating unit. Dims: 600x300x380 mm  
230 V, 50-60 Hz, 1 ph

**22-T0058/3:** Cooling coil for mains water circulation

**ST26:** Grant Optima™ Bath Tank 26L, Stainless Steel with a drain tap

**LST26:** Stainless steel lid, pitched lift-off, for when bath is used with water above 90°C

**T100:** Heating Circulator, Range ambient +5°C to 100°C, Stability ±0.05°C, Uniformity ±0.1°C, 230V 50Hz

**RS28:** Stainless steel raised shelf (h 45 or 135mm) for ST26 bath

**22-T0060/1:** High speed stirrer with cup and baffle

230 V, 50-60 Hz, 1 ph



**3311121:** Special hydrometer BS 1377, acc. to Casagrande

Measuring Range: 0.995-1.030 g/cm<sup>3</sup>

Scale Division: 0.0005 g/cm<sup>3</sup>

Error Limit: ±0.0005 g/cm<sup>3</sup>

Ref. Temperature: 20°C, Without Thermometer

Total Length: 350mm

With individual serial number and certificate of conformity

Traceable calibration certificate available on request

**22-T0040/4:** Glass plate 500x500x10 mm

**86-D1630:** Stainless flexible spatula, 100 mm blade length

**INS8500:** Insize Folding Illuminated Magnifier 10x

**ALE623R:** ViBRA ALE series Digital Balance 620 g x 0.001 g

**86-D1173:** Evaporating dish with spout, 210mm dia.

**MA-38:** Traceable Four-Channel Alarm Timer

**LH-1351-210:** Desiccator with porcelain plate 210mm

**86-D0819:** Silica gel desiccant with indicator. 1000 g bottle.

**LH-1102-1000:** Glass beaker tall form 1000 mL

**LH-1175-120:** Watch glass 120 mm dia.

**4917640:** Toledo Ruler 300 mm / 12" Stainless Steel

**RVD-RND70:** Dry Piston Vacuum Pump, 70 LPM, 750 mmHg

**VSV-Manifold:** 1/4" manifold with needle (flow control) valve

**3063D01:** 63mm Capsule -100/0 kPa Vacuum Gauge

**VSV-Hose:** 6mm I.D. silicone hose, 1 m length

**LH-C-145:** Porcelain Buchner funnel 120 mL, ID 70 mm

**LH-GR-2:** Guko rubber ring

**LH-1175-120:** Watch glass 120 mm dia.

**GW-75:** 2,000 ml Filter Flask, thick-walled Pyrex®

**GWA-2:** No. 9 Neoprene Stopper w/ Glass Tube

**9.056 461:** Grade 542 Quantitative Filter Paper, pack of 100

**LH-1401-0500P:** Glass reagent bottle with stopper 500 mL

**213962408:** DURAN® Measuring cylinder 100 mL

**213963601:** DURAN® Measuring cylinder 250 mL

**86-D1153:** Measuring pipette, Mohr type, 25 mL x 0.1 mL

**LH-1902-250-3:** Glass filter funnel, fritted disc, 250 mL

**86-D1537:** Wash bottle 500 mL cap.

**WWD001:** Water Wizard Counter Distiller 4L cap.

**06369-56:** Stirring Rods with Rubber Policeman (Pack of 12)

**86-D0802:** Sodium hexametaphosphate, 1000 g bottle

## 17. Cleanness Value of Coarse Aggregate

### Apparatus - NZS 4407.3.9



**G-SS-18F:** Cleanness Value Mechanical Agitator to NZS  
(230V / 50Hz)

**SSA-22:** Washing Vessel for the Cleanness Value Agitator  
Stainless steel vessel has a 7.6L volume and is 203x241 mm Dia. x H  
The vessel is supplied with a lid, gasket and lid clamps.

**213960801:** DURAN® Measuring cylinder 10 ml, hexagonal base, class B, white graduation  
**213965405:** DURAN® Measuring cylinder 1000 ml, hexagonal base, class B, white graduation  
**G-T0050/GTNZ:** Sand Equivalent cylinder with IANZ calibration



**82-D1231:** Digital stopwatch, 1/100th seconds stopwatch. Hours, minutes, seconds. Normal time. Date.

**MA-38:** Traceable Four-Channel Alarm Timer with NIST ISO A2LA Traceable Certificate



**86-D1535:** Plastic wash bottle, 100 ml capacity  
**86-D1536:** Plastic wash bottle, 250 ml capacity  
**86-D1537:** Plastic wash bottle, 500 ml capacity  
**86-D1538:** Plastic wash bottle, 1000 ml capacity

## 18. Crushing Resistance of Coarse Aggregate

### Apparatus - NZS 4407.3.10



**G-D0510/NZ:** ACV Aggregate crushing value apparatus, 300 mm dia.

**48-D0510:** ACV Aggregate crushing value apparatus, 150 mm dia.

**48-D0511:** ACV Aggregate crushing value apparatus, 75 mm dia.



**50-A42P02:** PILOT PRO COMPACT-Line 2000 kN cap. automatic compression machine for cylinders up to 160 x 320 mm  
Compression platens: upper dia. 165x30 mm and lower dia. 300x50 mm. Conforming to ASTM C39, AASHTO T 22  
230 V, 50-60 Hz, 1 Ph



**50-A42F02:** AUTOMAX PRO COMPACT-Line 2000 kN cap. automatic compression machine for cylinders up to 160 x 320 mm  
Compression platens: upper dia. 165x30 mm and lower dia. 300x50 mm. Conforming to ASTM C39, ASTM C469, AASHTO T 22  
230 V, 50-60 Hz, 1 Ph

## 19. Weathering Quality Index of Coarse Aggregate

### Apparatus - NZS 4407.3.11



**G-TRAY:** Weathering Index Tray NZS compliant  
350 x 350 x 50 high mm

**G-ROLLER:** Weathering Index Roller NZS compliant  
75 +/- 2mm diameter, 180 +/- 5mm long



**SSA-22:** Washing Vessel for the Cleanness Value Agitator  
Stainless steel vessel has a 7.6L volume and is 203x241mm Dia. x H  
The vessel is supplied with a lid, gasket and lid clamps.

**86-D1620:** Trowel 60x140 mm

**86-D1630:** Stainless flexible spatula, 100 mm blade length



**86-D1527:** Airtight plastic container w/ lid and handle, 5 l capacity

## 20. Bulk Specific Gravity, Density & Absorption

**Apparatus - ASTM C127 | ASTM C128 | AS 1141.5 | AS 1141.6**



**11-D0612/C:** Specific gravity frame with plastic water tank included (balance not included)

**11-D0612:** Density basket 200 mm dia. x 200 mm high, stainless steel with 3.35 mm mesh opening.

**ALE15001R:** ViBRA ALE Digital Balance 15,000g cap. x 0.1g readability

**ALE-DU:** Under weighing hook for ALE series

**55-D1403:** Melting pot. 230 V, 50-60 Hz, 1 ph

**86-D0805:** Paraffin wax, 1 kg

**55-C0121/5:** Stainless steel ladle

**86-D1685/G:** Double ended nylon sieve brush



**C300:** Center 300 Digital Thermometer Type K

Range: -200 °C to 1370 °C, Resolution: 0.1 °C, Accuracy: ± 0.1% +0.7 °C

**ITP-HK08T0390:** Bitumen Probe Short, K Type c/w 1m lead & T-bar handle, stem length 390mm, tip dia. 6mm x 35mm length

**ITP-049K06\_100T2:** Immersion Probe 6 x 100mm MIMS Thermocouple 1.5m PVC Lead and K Type Mini Plug

IANZ calibration available on request.



**SG-1:** Specific Gravity & Absorption of Fine Aggregate Set

**216784406:** DURAN® Volumetric flask 500 ml, white graduation, class A, batch certificate, with one graduation mark, octagonal PE-stopper, NS 19/26

## 21. Abrasion Resistance by LA Machine Method

### Apparatus - NZS 4407.3.12



- 48-D0500/G:** Los Angeles abrasion machine with graphic display and membrane keyboard  
230 V, 50 Hz, 1 ph
- 48-D0505:** Set of 12 abrasive charges conforming to ASTM/AASHTO standards



- 48-D0500/CB2:** Noise reduction and CE compliant safety cabinet with door opening switch for Los Angeles machine.



- 200SIW1.70:** 200mm dia. x 1.70mm Stainless Steel Woven Wire



## 22. California Bearing Ratio (CBR)

### Apparatus



**G-T0090/PNZ:** CBR Mould Complete with perforated baseplate  
**G-T0090/SNZ:** CBR Mould Complete with solid baseplate  
**G-T0095/NZ:** CBR slotted surcharge weight 2 kg  
**G-T0094/NZ:** CBR annular surcharge weight 2 kg

**G-T0092/NZ:** Perforated (swell) plate with adjustable stem  
**34-T0093:** Dial gauge tripod, non-corrodible alloy  
**82-D1257:** Dial gauge 30 mm x 0.01 mm



**34-V1182:** MULTILOADER 50 kN automatic electromechanical universal compression testing machine, with digital control and readout unit, motorized ram, two-column structure, adjustable crossbeam and variable speed from 0.05 to 51 mm/min for displacement-controlled testing  
 230V, 50-60Hz, 1 ph

**34-V0107/CBR:** Test set to perform the CBR test in digital mode  
 - Load cell, 50 kN capacity  
 - Adapter to fit load cell (two pieces)  
 - Displacement transducer, 25 mm travel  
 - Adjustable transducer holder  
 - Adjustable CBR penetration piston

**34-SW/CMS:** PC software for Marshall, CBR, Indirect Tensile and universal tests. Also suitable for SCB (to EN 12697-44, ASTM D8044 and AASHTO TP 124), IDEAL-CT and Leutner SBT tests.

**86-D1800:** Whatman paper No 1 x 150 mm dia. medium grade. Pack of 100.  
**86-D1631:** Stainless flexible spatula, 160 mm blade length  
**34-T0099:** Straight edge 3x30x300 mm

**86-D1550:** Heavy plastic sample bag, 40x70 cm  
**SC-4:** Galvanized Iron Pan with handles 28L 609x609x76 mm  
**86-D1308/10:** Stainless steel pan w/ handles 600x400x95 mm  
**34-T0095/C:** CBR tamping bar 12.7 mm dia. x 380 mm long



**33-T0075/B:** BS Standard compaction rammer, 2.5 kg  
**33-T0076/B:** BS Modified compaction rammer, 4.5 kg  
**34-T0100/B:** Large soaking tank, external dim. 800x600x550 mm  
**16-T0080:** Universal specimen extruder

## 23. Standard & Heavy Compaction (Proctor)

### Apparatus



**G-T0070/NZ:** Proctor Mould Complete

**33-T0075/B:** BS Standard compaction rammer, 2.5 kg weight, 50 mm dia.

**33-T0076/B:** BS Modified compaction rammer, 4.5 kg weight, 50 mm dia.

**86-D1631:** Stainless flexible spatula, 160 mm blade length

**34-T0099:** Straight edge 3x30x300 mm

**86-D1537:** Plastic wash bottle, 500 ml capacity



**SC-4:** Galvanized Iron Pan with handles 28L 609x609x76 mm

**86-D1308/6:** Stainless steel pan 360x360x60 mm (no handles)

**86-D1550:** Heavy plastic sample bag, 40x70 cm

**16-T0080:** Universal specimen extruder

Optional:

**33-T3712:** Universal Fully Automatic programmable Proctor/CBR compactor for specimens from 100 mm to 150 mm diameter, conforming to EN, ASTM, AASHTO, BS, NF, AS and major international Standards. Universal rammer kit included. 230 V, 50 Hz, 1 ph



## 24. Vibrating Compaction Hammer

Apparatus - **NZS 4402.4.1.3 | NZTA T19: 2020**



**33-T8702/A:** Vibration hammer for soil and asphalt compaction

- Full load impact rate 2800 bpm
  - Constant speed with variable speed control
- 230V/50-60Hz/1Ph

**33-T8702/FR:** Supporting frame for vibrating hammer

**33-T8702/W:** Extra weight, 20 kg total, for steel frame model 33-T8702/FR

**33-T0087/6:** Small tamping foot, 102 mm dia., head only

**33-T0087/7:** Large tamping foot, 146 mm dia., head only

**33-T0087/8A:** Shank, 300 mm long



**G-T0079/NZ:** Groundtest T19 split mould complete with body, collar and plain baseplate

- ITS mould complying to NZTA T-19 and NZS Vibrating hammer test
- Designed for increased strength and durability
- Easy specimen retrieval

**82-D1231:** Digital stopwatch, 1/100th seconds stopwatch. Hours, minutes, seconds. Normal time. Date.

**MA-38:** Traceable Four-Channel Alarm Timer with NIST ISO A2LA Traceable Certificate

**86-D1308/10:** Stainless steel pan w/ handles 600x400x95 mm

**SC-4:** Galvanized Iron Pan with handles 28L 609x609x76 mm

**86-D1308/6:** Stainless steel pan 360x360x60 mm (no handles)

**86-D1550:** Heavy plastic sample bag, 40x70 cm

**4917480:** 150 mm Toledo Ruler

**G-T0099:** Plated Steel Straight Edge 300mm long

## 25. Nuclear Moisture-Density Gauges

Troxler NDM Models - [NZS 4407.4.2](#) | [NZS 4407.4.3](#)



<u>Model</u>	<u>Alkaline Batteries</u>	<u>Remote Start</u>	<u>USB</u>	<u>Data Storage</u>	<u>External Beeper</u>	<u>Backlit Keypad</u>	<u>GPS</u>
<b>3430+ Standard</b>	✓						
<b>3430+ Premium</b>	✓	✓	✓	✓	✓		
<b>3440+ Standard</b>	✓	✓	✓	✓			
<b>3440+ Deluxe</b>	✓	✓	✓	✓	✓	✓	
<b>3440+ Premium</b>	✓	✓	✓	✓	✓	✓	✓

All gauges are supplied complete with IANZ calibration.

**G-NDMStartKit:** NDM Starter Kit, including:

- Magnetic Radiation Sign
- Radiation Sign Placard for Vehicle
- Radiation Sign Bracket for Vehicle (with 4 screws)
- Dangerous Goods Document Bag
- Phillips #2 Head Screwdriver
- Lubricant Magnalube .75Oz Tube
- NDM Leak Test Kit

The Troxler nuclear moisture density gauges are used by many contractors, engineers, and highway departments for compaction control of soil, aggregate, concrete, and full depth asphalt.

The operator selects the density measurement mode, backscatter, or direct transmission based on the material type and the thickness of the layer being measured.