

# California Bearing Ratio (CBR)

Impact soil tester / Strength of stabilised soil

SOIL TESTING

## IMPACT SOIL TESTER

### ■ 34-T0168/A

Impact soil tester

Used to obtain an indication of the degree of compaction of soil used in road construction. Results can be directly correlated to the CBR test. The unique microprocessor in this Soil Impact Tester automatically checks all readings throughout the test and displays the fourth reading as the Impact Value. No calculation and no need to record any readings other than the final test result. An essential trench control tool for all cable and pipe laying service contractors.

#### 📏 Dimensions:

140x140x700 mm approx.



Weight approx.: 6.5 kg



34-T0168/A

## DETERMINATION OF STRENGTH OF STABILISED SOIL

Two versions available: BS and NF.

#### 📄 STANDARD

pr EN 13286-53, BS 1924:2, NF P98-230-2

#### pr EN and BS version

### ■ 34-T0123

Stabilised soil mould test for fine and medium grained soils. Specimen size 100x50 mm dia.

### ■ 34-T0124

Stabilised soil mould test for medium and coarse-grained soils. Specimen size 200x100 mm dia.

Used to prepare specimens for determination of the Unconfined compressive strength of fine and medium grained soils. The BS set comprises:

- Mould
- Set of two end plugs
- Set of two plug displacing collars
- Plunger
- Specimen collector.

#### 📏 Weight approx.:

10 kg (34-T0123) and 53 kg (34-T0124)

#### NF version

### ■ 34-T0123/A

Stabilised soil mould test set for fine and medium grained soils. Specimen size 50x50 mm dia.

### ■ 34-T0123/B

Stabilised soil mould test set for medium and coarse-grained soils. Specimen size 100x50 mm dia.

The sets consists of the following: mould (50x50 or 50x100 mm), two end plugs, two displacing collars 25 mm high, two 12.5 mm high, two 6 mm high, plunger and specimen collector. Each item can be ordered individually as proposed in the following table.



34-T0123, 34-T0124

#### NF version

Code	Description
34-T0123/10	Mould dia. 50x50 mm high
34-T0123/11	Mould dia. 50x100 mm high
34-T0123/12	End plug (two required)
34-T0123/13	Set of two displacing collars 25 mm high
34-T0123/14	Set of two displacing collars 12.5 mm high
34-T0123/15	Set of two displacing collars 6 mm high
34-T0123/16	Plunger
34-T0123/17	Specimen collector



35-T0133



35-T0128, 35-T0129

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижегород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Казахстан (772)734-952-31

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Таджикистан (992)427-82-92-69

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

# Field and laboratory density / Bearing capacity

## SOIL TESTING

The verification of the degree of compaction can be determined on site by a simple procedure consisting essentially in removing and weighing a part of compacted soil and replacing it in the hole with sand by a simple apparatus recording the volume of sand and then calculating the density of the removed soil. Two versions are available: BS and ASTM. The principle of operation is the same but parts and sizes are different.

### SAND REPLACEMENT METHOD - ASTM, AASHTO, CNR, NF VERSIONS

#### STANDARD

ASTM D1556, AASHTO T191, CNR No. 22  
NF P94-061-3

Complete sets: double cone, 2 plastic sand jar<sup>(1)</sup> 5 l cap. and metal tray

#### 35-T0128

4" (101.6 mm) sand density cone apparatus

#### 35-T0129

6.5" (165.1 mm) sand density cone apparatus

### Accessories

35-T0127/1 Standard sand 0.4 – 2 mm, CNR No. 22

35-T0130/8 Calibrating container, 6". For use with 35-T0129 apparatus. Internal dia. 165 mm, depth 187 mm. Weight approx. 5 kg

### note

In the 12", 35-T0133 model, the two cones are connected by a valve with pouring hole 25 mm dia. The clear plastic 15 litres container is fitted to the cone with two clamps. Supplied complete with 700 mm dia. baseplate. This model is recommended for gravel and coarse-grained soil.

#### 35-T0133

12" (304.8 mm) sand density cone apparatus

(1) Except the 12" model supplied with only 1 acrylic sand container

### Sand replacement set parts (ASTM, AASHTO, CNR versions)

Models (in./mm dia.)	Code 4"/101.6	Code 6.5"/165.1	Code 12"/304.8
Complete set	35-T0128	35-T0129	35-T0133
Weight approx. kg	3	3	20
Double cone	35-T1028/1	35-T0129/1	/
Plastic sand jar 5 l cap.	35-T0130/2	35-T0130/2	/
Metal base plate with flanged (rimmed) hole	35-T0128/2	35-T0129/2	/

### Sand replacement set parts (BS versions)

Models (mm dia.)	Code 100	Code 150	Code 200
Complete set	35-T0125	35-T0125/A	35-T0126
Weight (kg)	7.7	13	27.5
Sand pouring cylinder	35-T0125/1	35-T0125/A1	35-T0126/1
Weight (kg)	4	7.5	16
Calibration can	35-T0125/2	35-T0125/A2	35-T0126/2
Weight (kg)	2.2	3.5	8.5
Density tray	35-T0125/3	35-T0125/A3	35-T0126/3
Size (mm)	305x38	300x40	457x38
Weight (kg)	1.5	2	3

## Field density Sand replacement method

### SAND REPLACEMENT METHOD - BS VERSION

#### STANDARD

BS 1377:9, 1924:2

Complete sets: pouring cylinder, calibration container and metal tray.

#### 35-T0125

100 mm sand replacement complete set

#### 35-T0125/A

150 mm sand replacement complete set

#### 35-T0126

200 mm sand replacement complete set

### Description and specifications

The sand pouring cylinder and calibration can are made of cast aluminium and precisely machined.

The tray is made of plated sheet steel. Each part can be ordered individually.



35-T0125, 35-T0125/A, 35-T0126

### Accessories

35-T0127 Standard sand 600/300 micron, 50 kg bag

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Казахстан (772)734-952-31

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Таджикистан (992)427-82-92-69

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93