UTEST
MATERIAL TESTING EQUIPMENT

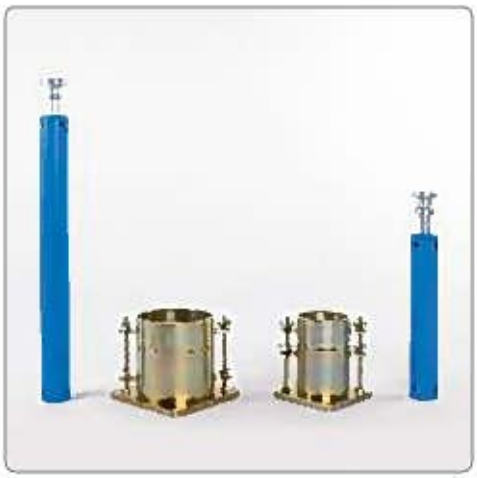
SOIL

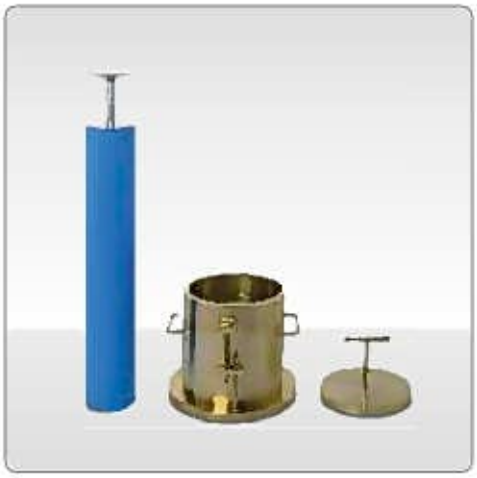
Compacted Road Base and Subbase Soils

DENSITY-WATER CONTENT RELATIONSHIP
Proctor Moulds And Rammers

Product Code

UTS-0600A	Standard Proctor Mould, ASTM
UTS-0605A	Standard Proctor Compaction Rammer, ASTM
UTS-0610A	Modified Proctor Mould, ASTM
UTS-0615A	Modified Proctor Compaction Rammer, ASTM
UTS-0600E	A Type Proctor Mould (Standard), EN
UTS-0603E	A Type Split Proctor Mould (Standard), EN
UTS-0605E	A Type Proctor Compaction Rammer (Low Energy-Standard), EN
UTS-0607E	Steel Plate for The End Layer Comp. for A Type Proctor Moulds, EN
UTS-0610E	B Type Proctor Compaction Mould (Modified), EN
UTS-0613E	B type (Modified) Split Proctor/CBR Split Mould, EN,
UTS-0615E	B Type Proctor Compaction Rammer (Medium Energy-Modified), EN
UTS-0617E	Steel Plate for The End Layer Comp. for B Type Proctor Moulds,, EN
UTS-0620E	C Type Proctor Compaction Mould, EN
UTS-0625E	C Type Proctor Compaction Rammer (High Energy), EN
UTS-0627E	Steel Plate for The End Layer Comp. for C Type Proctor Moulds, EN
UTS-0600B.TS	1 Liter Mould (Standard Proctor), BS, TS 1900-1
UTS-0605B	2.5 kg Compaction Rammer, BS
UTS-610B.E	Modified Proctor (CBR Type Mould), BS / Vibrating Hammer Mould BS, EN, TS 1900-1
UTS-0615B	4.5 kg Compaction Rammer, BS
UTS-0600NF	Standard Proctor Mould, NF
UTS-0603NF	Split Standard Proctor Mould, NF
UTS-0605NF	Standard Proctor Compaction Rammer, NF
UTS-0610NF	CBR Type Mould (Modified Proctor), NF
UTS-0613NF	Split CBR Type Mould (Modified Proctor), NF
UTS-0615NF	Modified Proctor Compaction Rammer, NF
UTS-0600AS	A type Proctor Mould (Standard), AS
UTS-0605AS	Standard Proctor Compaction Rammer with Round Foot. AS
UTS-0606AS	Standard Proctor Compaction Rammer with Sector Foot. AS
UTS-0610AS	B type Proctor Compaction Mould (Modified), AS
UTS-0615AS	Modified Proctor Compaction Rammer with Round Foot. AS
UTS-0616AS	Compaction Rammer with Sector Foot. AS





Standards

ASTM D 698, D 1557, D 558 ; AASHTO T 99, T180, T 134 ; EN 13286-2; BS 1377:4, 1924:2; NF P 94-093 (Alternative); AS 1289.5.1.1 and 5.1.2

Moulds and rammers are used for determining the relationship between the moisture content and density of compacted soil. Made of plated steel, includes collar, mould body and base plate. Rammers are used to compact the soil sample in the Proctor Moulds and made of plated steel. Different models are available conforming to the relevant standards.

According to NF P 94-093, proctor moulds and rammers that include "...NF", can be used as an alternative to the moulds and rammers that include "...E" which also in compliance with EN 13286-2.

Proctor Moulds - ASTM / AASHTO

Product Code	Description	Internal Dia. (mm)	Body Height (mm)	Volume (cm^3)	Weight (approx. kg)
UTS-0600A	Standard Proctor Mould	101.6 ± 0.4	116.4 ± 0.5	944.0 ± 14	4
UTS-0610A	Modified Proctor Mould	152.4 ± 0.7	116.4 ± 0.5	2124 ± 25	8

Proctor Moulds - EN

Product Code	Description	Internal Dia. (mm)	Body Height (mm)	Volume (cm^3)	Weight (approx. kg)
UTS-0600E	A Type Proctor Mould EN (Standard)	100 ± 1	120 ± 1	942	6
UTS-0603E	A Type Split Proctor Mould (Standard), EN	100 ± 1	120 ± 1	942	6
UTS-0610E	B Type Modified Proctor / CBR Mould, EN	150 ± 1	120 ± 1	2120	10
UTS-0613E	B Type Mod. Split Proctor / CBR Mould, EN	150 ± 1	120 ± 1	2120	10
UTS-0620E	C Type Proctor Mould, EN	250 ± 1	200 ± 1	9813	12

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Proctor Moulds - BS

Product Code	Description	Internal Dia. (mm)	Body Height (mm)	Volume (cm^3)	Weight (approx. kg)
UTS-0600B	1 liter Mould (Standard Proctor) BS,TS-1900-1	105 ± 0.5	115.5 ± 0.5	1000	5
UTS-0610B	Modified Proctor (CBR Type Mould) / Vibrating Hammer Mould BS, EN, TS-1900-1	152 ± 0.5	127 ± 1	2303	7

*C Spanners (UTS-0611B.E) and Assembly Tool (UTS-0612B.E) should be ordered separately for assembling and disassembling the these moulds.

Proctor

Product Code	Description	Internal Dia. (mm)	Body Height (mm)	Volume (cm^3)	Weight (approx. kg)
UTS-0600NF	Standard Proctor Mould, NF	101,5± 0.5	116,5± 0,5	942	5
UTS-0603NF	Split Standard Proctor Mould, NF				
UTS-0610NF	Modified Proctor (CBR Type) Mould, NF	152 ± 0.5	152,0± 0,5	2757	15
UTS-0613NF	Split Modified Proctor (CBR Type) Mould, NF				

Proctor Moulds - AS

Product Code	Description	Internal Dia. (mm)	Body Height (mm)	Volume (cm^3)	Weight (approx. kg)
UTS-0600AS	A Type Proctor Mould AS (Standard)	105 ± 0,5	115± 0,5	1000	6
UTS-0610AS	B Type Proctor Mould AS (Modified)	152 ± 1	132,5 ± 0,5	2400	10

Proctor Rammers - ASTM / AASHTO

Product Code	Description	Rammer Dia. (mm)	Free Fall Height (mm)	Mass of Rammer (g)	Weight (approx. kg)
UTS-0605A	Standard Proctor Compaction Rammer	50.8	304.8± 1	2495 ± 23	9
UTS-0615A	Modified Proctor Compaction Rammer	50.8	457 ± 1.3	4540 ± 10	5

Proctor Rammers - EN

Product Code	Description	Rammer Dia. (mm)	Free Fall Height (mm)	Mass of Rammer (g)	Weight (approx. kg)
UTS-0605E	A Type Rammer EN (Low Energy-Standard)	50 ± 0.5	305± 3	2500 ± 20	5
UTS-0615E	B Type Rammer EN (Med. Energy-Modified)	50 ± 0.5	457 ± 3	4500 ± 40	8
UTS-0625E	C Type Proctor Cmp. Rammer EN (High Energy)	125 ± 0.5	600 ± 3	15000 ± 40	15

Proctor Rammers - BS

Product Code	Description	Rammer Dia. (mm)	Free Fall Height (mm)	Mass of Rammer (g)	Weight (approx. kg)
UTS-0605B	2.5 kg Compaction Rammer BS	50 ± 0.5	300± 3	2500 ± 25	5
UTS-0615A	4.5 kg Compaction Rammer BS	50 ± 0.5	450 ± 4	4500 ± 50	4,50

Proctor Rammers - NF P 94-093 (Alternative)

Product Code	Description	Rammer Dia. (mm)	Free Fall Height (mm)	Mass of Rammer (g)	Weight (approx. kg)
UTS-0605NF	Standart Proktor Tokmak, NF	51 ± 1.0	305± 2	2490 ± 2.5	5
UTS-0615NF	Modifiye Proktor Tokmak, NF	51 ± 1.0	457 ± 2	4535 ± 5	8

Proctor Rammers - AS

Product Code	Description	Rammer Dia. (mm)	Free Fall Height (mm)	Mass of Rammer (g)	Weight (approx. kg)
UTS-0605AS	Standard Proctor Compaction Rammer with Round Foot. AS	50±0,4	300±2,0	2.7±0,01 kg	4
UTS-0606AS	Standard Proctor Compaction Rammer with Sector Foot. AS	74±0,5 (Radius of sector foot)	300±2,0	2.7±0,01 kg	4
UTS-0615AS	Modified Proctor Compaction Rammer with Round Foot. AS	50±0,4	450±2,0	4.9±0,01 kg	8
UTS-0616AS	Modified Proctor Compaction Rammer with Sector Foot. AS	74±0,5 (Radius of sector foot)	450±2,0	4.9±0,01 kg	8

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