SOIL > MOISTURE-DENSITY RELATIONSHIP

PROCTOR SET

Code : T050



- The Proctor Set is used to determine the relationship between molding water content and dry unit weight of soils, commonly known as the compaction curve. This relationship is essential for identifying the optimum moisture content and maximum dry density of soil, which are critical parameters in geotechnical engineering and construction projects.
- The apparatus includes a cylindrical mold, a detachable collar, a base plate, and a rammer. The soil sample is compacted in layers within the mold using the rammer dropped from a specified height, simulating field compaction conditions.
- Two primary test methods are utilized: the Standard Proctor Test and the Modified Proctor Test. The Standard Proctor Test applies a lower compaction effort, suitable for soils with lower strength requirements, while the Modified Proctor Test uses a higher compaction effort, appropriate for soils in high-load applications.
- The Proctor Set is manufactured in compliance with international standards, ensuring reliable and repeatable results across various soil types and project requirements

- All components are made from steel and coated against corrosion, ensuring durability and reliability for prolonged laboratory use.
- The mould body is supplied complete with a collar and base plate, allowing secure preparation of soil samples during testing.

STANDARDS

ASTM D698 • ASTM D1557 • ASTM D558 • EN 13286-2 • AASHTO T99 • AASHTO T180 • BS 1377-4

TECHNICAL SPECIFICATIONS

- Manufactured from steel with an anti-corrosion coating
- Mould is comprised of mould body, collar, and base plate
- The set consists of a mould and a rammer

Item	Internal Diameter	Mould Body Height	Volume
Standard Proctor Mould (ASTM)	4” (101.6 mm)	4.584” (116.4 mm)	0.94 lt
Standard Proctor Mould (EN)	100 mm	120 mm	0.94 lt
Standard Proctor Mould (BS)	105 mm	115.5 mm	1.00 lt
Standard Proctor Mould (AS)	105 mm	115.5 mm	1.00 lt
Modified Proctor Mould (ASTM)	6” (152.4 mm)	4.584” (116.4 mm)	2.12 lt
Modified Proctor Mould (EN)	150 mm	120 mm	2.12 lt
Modified Proctor Mould (AS)	152 mm	132.5 mm	2.40 lt

Item	Diameter	Drop Heigth	Rammer Weight
Standard Proctor Rammer (ASTM)	2” (50.8 mm)	12” (304.8 mm)	5.5 lb (2.49 kg)
Standard Proctor Rammer (EN)	50 mm	305 mm	2.50 kg

Standard Proctor Rammer (BS)	50 mm	300 mm	2.50 kg
Standard Proctor Rammer (AS)	50 mm	300 mm	2.70 kg
Modified Proctor Rammer (ASTM)	2” (50.8 mm)	18” (457.2 mm)	10 lb (4.54 kg)
Modified Proctor Rammer (EN)	50 mm	457 mm	4.50 kg
Modified Proctor Rammer (BS)	50 mm	450 mm	4.50 kg
Modified Proctor Rammer (AS)	50 mm	450 mm	4.90 kg

ORDERING INFORMATION

Item Name	Item Code
MODIFIED PROCTOR MOULD - ASTM	T050P001H
MODIFIED PROCTOR MOULD - EN	T050P002H
MODIFIED PROCTOR RAMMER - ASTM	T050P003H
MODIFIED PROCTOR RAMMER - BS	T050P004H
MODIFIED PROCTOR RAMMER - EN	T050P005H
STANDARD PROCTOR MOULD - ASTM	T050P006H
STANDARD PROCTOR MOULD - BS	T050P007H
STANDARD PROCTOR MOULD - EN	T050P008H
STANDARD PROCTOR RAMMER - ASTM	T050P009H
STANDARD PROCTOR RAMMER - BS	T050P010H
STANDARD PROCTOR RAMMER - EN	T050P011H
STANDARD PROCTOR RAMMER - AS	T050P01SH
MODIFIED PROCTOR RAMMER - AS	T050P02SH

STANDARD PROCTOR MOULD - AS	T050P03SH
MODIFIED PROCTOR MOULD - AS	T050P04SH
T-HANDLE with MASS for STD. RAMMER - AS	T050P05SH
T-HANDLE with MASS for MOD. RAMMER - AS	T050P06SH
STANDARD PROCTOR SET - ASTM	T050X10AH
STANDARD PROCTOR SET - BS	T050X10BH
STANDARD PROCTOR SET - EN	T050X10EH
MODIFIED PROCTOR SET - ASTM	T050X15AH
MODIFIED PROCTOR SET - EN	T050X15EH

OTHER PHOTOS

