

## RELATIVE DENSITY TEST

### Product Code

UTS-0670A-C Relative Density Test Set, ASTM, 380V 50Hz, 3 ph.  
 UTS-0672A Relative Density Mould Set, ASTM, 0.5 ft 3 UTS-0673A Relative Density Mould Set, ASTM, 0.1 ft 3 UTS-0674A Relative Density Gauge Set, ASTM  
 UTS-0675 Pouring Funnel Set, for Relative Density Test. UTS-0676 Compass Crane with Electric Motor  
 UTS-0678 Equipment for Calibration of Amplitude of Vibrating Table

### Standards

ASTM D4253 (Method 1A-1B), D4254

Relative Density Test Set acc. to ASTM is used for the determination of the relative density of cohesionless soil for which impact compaction will not produce a well defined moisture-density relationship curve and where the maximum density of impact method will generally be less than by vibratory method.

The test is applicable to soils that may contain up to 15 %, by dry mass, of soil particles passing a No 200 (75- $\mu$ m) sieve, provided they still have cohesionless, free-draining characteristics. Further, these test methods are applicable to soils in which 100 %, by dry mass, of soil particles pass a 3-in. (75-mm) sieve.

UTS-0670A-C, Relative Density Test Set consists of an electromagnetic vibrating table with controller, relative density mold sets (0,1 ft.3 and 0,5 ft.3) and relative density gauge set.

UTS-0672A or UTS-0673A, Relative Density Mould Set consists of a mould, circular surcharge weight with handle, surcharge base plate with handle and detachable guide

sleeve with clamp assembly.

UTS-0674A, Relative Density Gauge Set consists of an analog displacement dial gauge (50 x 0.01 mm division, 0-100 scale UTGM-0132) with holder and calibration bar, metal 75 x 300

x 6mm set.

UTS-0676, Cross Crane with Electric Motor is used for handling of surcharge weights for user safety during the test. The Crane be anchored to a rigid wall and/or concrete ground.

UTS-0678, Equipment for Amplitude Calibration of Vibrating Table consists of a software for vibration amplitude measurement, data acquisition (1000 record/second) unit, electronic displacement transducer (accuracy 0.0005 in. - 0.015 mm) and mount for displacement transducer (for mounting the transducer at the top of the mold. during the calibration).

UTS-0675, UTS-0676 and UTS-0678 should be ordered separately.



UTS-0673A Relative Density Mould Set

Vibration Frequency	50 Hz
Amplitude Range	Between about 0.20 mm and 0.48 mm
Vibrating Table	Electromagnetic

Type	Product Code	Dimensions	Weight (approx.)
	UTS-0670A-C	570x760x1400 mm	135 kg
	UTS-0672A	390x390x490 mm	130 kg
	UTS-0673A	240x240x490 mm	45 kg
	UTS-0674A	100x100x320 mm	1,8 kg
	UTS-0675	170x170x530 mm	8 kg
	UTS-0676	400x1850x2100 mm	95 kg
	Complete Set	1100x1820x2300 mm	400 kg