

BALLOON DENSITY TESTER



The determination of soil density by balloon method is similar to the sand cone method. The soil sample is removed, weighed and dried then weighed again and the moisture content is determined. The resulting volume of the hole is then measured by forcing water into a balloon to fill the hole and then reading the volume on the graduated tube that is measured in both cu. ft. and cu. cm. The Densi-Tester is furnished complete with soil tray and 1 dozen balloons. The Densi-Tester is available in three different sizes 1/20, 1/13, and 1/10 cu ft.

MODELS	DESCRIPTION	STANDARDS
S3701	BALLOON DENSITY TESTER, 1/20 CU FT	ASTM D-2167 / AASHTO T-205
S3705	BALLOON DENSITY TESTER, 1/13 CU FT	
S3711	BALLOON DENSITY TESTER, 1/10 CU FT	

ACCESSORIES	S3701	S3705	S3711
CYLINDER	S3703	S3707	S3713
GASKETS	S3710	S3715	S3716
BALLOONS	S3717	S3717	S3717
BULB ASSEMBLY	S3718	S3718	S3718

DENSITY TUBE SAMPLER

The **S3752** thru **S3757** Corps of Engineers Density Tube Samplers are designed for determining the in-place density of cohesive soils by driving a cylinder of known volume into the soil by a dropping weight, striking-off and weighing the cylinder and core, determining moisture content and computing dry density. The Sampler has a tube holder, guide rod, handle, sliding weight and 12 tubes.



MODELS	DESCRIPTION	STANDARDS
S3752	DENSITY TUBE SAMPLER, 2"	ASTM D-2937/ AASHTO T-20
S3755	DENSITY TUBE SAMPLER, 3"	
S3757	DENSITY TUBE SAMPLER, 4"	

ACCESSORIES	DESCRIPTION
S3753	EXTRA TUBE, 2", SET OF 10
S3756	EXTRA TUBE, 3", SET OF 10
S3758	EXTRA TUBE, 4", SET OF 10

TRAFFICABILITY SET

The **S3764** Trafficability set is designed to meet the Army Corps of Engineers (ACOE) field bearing test for vehicle use. The set consists of a piston type sampler which obtains soil cores and determines soil density. The piston type sampler has a hollow tube with handles and plunger with a detachable sampling tube. Also included with the set is a remolding set which consists of a cylinder with the same diameter as the sampling tube, a base with pedestal and a drop weight tamper with foot for dropping a 2-1/2 lb. weight with 18" drop. The third part of the set consists of an ACOE type cone penetrometer similar to the **S4612**. A canvas carrying case and operating instructions are also furnished with the set.



MODELS	DESCRIPTION	STANDARDS
S3764	TRAFFICABILITY SET	U.S. ARMY C.O.E.

