Cone Appartus

SAND ABSORPTION CONE

MANUFACTURED AS PER ASTM C 128

Introduction

Sand Absorption Cone is used to determine the slump of fine aggregate in the determination of bulk and apparent specific density and absorption of fine aggregates.

Standard Outfit includes:

Standard outfit consist one each of the following parts:

1. Sand Metal Cone 1.5" dia at top, 3.5" dia at base and 2-7/8" dia high
2. Metal Tamping Rod weighing 12 oz, with 1" diameter flat circular face

UMI-007

SAND CONE APPARATUS

MANUFACTURED AS PER ASTM D 1556

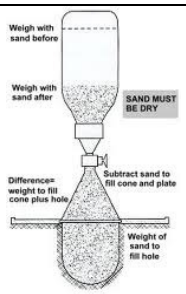
Introduction

The Sand Cone Apparatus is used to determine the in-place density of any soil that can be excavated to a stable condition with hand tools. This is done mostly on soils with a maximum particle size of 5 cm.

Standard Outfit includes:

Standard outfit consist one each of the following parts:

1. Sand Metal Cone
2. Sand Bottle for keeping sand
3. Base Plate with hole



Standard Operation:

A small hole (6" x 6" deep) is dug in the compacted material to be tested. The soil is removed and weighed, then dried and weighed again to determine its moisture content. A soil's moisture is figured as a percentage. The specific volume of the hole is determined by filling it with calibrated dry sand from a jar and cone device. The dry weight of the soil removed is divided by the volume of sand needed to fill the hole. This gives us the density of the compacted soil in lbs per cubic foot. This density is compared to the maximum Proctor density obtained earlier, which gives us the relative density of the soil that was just compacted.