

RELATIVE DENSITY OF COHESIONLESS SOIL

VIBRATING TABLE METHOD

This test covers the determination of the maximum dry density and the water content (humidity/density ratio) of cohesionless mixtures to be used in road construction, and where the max density by the impact method is lower than the vibratory method.

The relative density set is proposed in two versions according to EN or ASTM Specifications:

S238 KIT

Relative density of cohesionless soils

STANDARD: EN 13286-5

The set is composed by:

S238-10

Vibrating electromagnetic table, dimensions 762x762 mm, vibration frequency 3600 rpm, amplitude range: 0,05 to 0,64 mm, max. load capacity 250 kg, complete with separate control panel.

S238-11 Relative density mould 0,5 cu. ft. capacity with accessories.

S238-12 Surcharge weight and base with handle to EN for the 0,5 cu. ft. mould.

S238-16 Relative density gauge measuring set.

Power supply: 230V 1ph 50/60Hz

Total weight: 290 kg approx.

S238-01 KIT

Relative density of cohesionless soils

STANDARDS: ASTM D4253, D4254

The set is composed by:

S238-10 Vibrating electromagnetic table, as above described.

S238-11 Relative density mould 0,5 cu. ft. capacity + accessories.

S238-13 Relative density mould 0,1 cu. ft. capacity + accessories.

S238-14 Surcharge weight and base with handle to ASTM for the 0,5 cu. ft. mould.

S238-15 Surcharge weight and base with handle to ASTM for the 0,1 cu. ft. mould.

S238-16 Relative density gauge measuring set.

Power supply:

230V 1ph 50/60Hz

Total weight:

310 kg approx.



S238-01 KIT

S229N

Dynamic plate load test Light Weight Deflectometer

STANDARDS: ASTM E 2835-11 / TP BF-StB part B 8.3

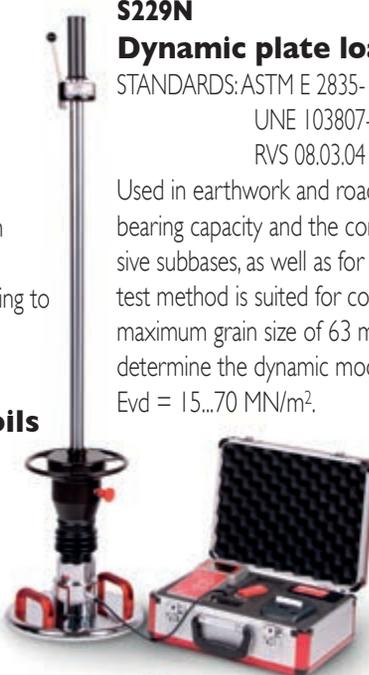
UNE 103807-2:2008 / TB 10102-2004, J338-2004

RVS 08.03.04 march 2008

Used in earthwork and road construction to determine the soil bearing capacity and the compaction quality of soils and non cohesive subbases, as well as for soil improvement applications. The test method is suited for coarse-grain and mixed-grain soil having maximum grain size of 63 mm. The test method may be used to determine the dynamic modulus of deformation of soil in the range $E_{vd} = 15...70 \text{ MN/m}^2$.

ADVANTAGES over the static plate load tester:

- Immediate evaluation of each measurement
- Only 2 minutes per measurement point
- Time and cost-saving
- Easy to handle by one person
- Testing in location not really accessible



S229N

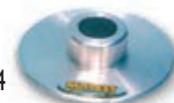
Being easy to handle and providing immediate measuring results, the Light Weight Deflectometer is additionally suited for monitoring intra-company operations. It facilitates quick decisions for continuing construction work at the site.

SPECIFICATIONS:

- Measuring instrument - small, portable and precise
- Intuitive menu navigation - choose, confirm, ready!
- Individual adjustment possibilities
- USB interface, GPS and thermal printer
- Max. impact force: 7,07 MN/m²
- Duration of the impact 17 ms
- Load plate dia. 300x20 mm
- Temperature range 0 bis 40° C
- Storage capacity 1000 series of measured data
- Language for menu navigation selectable
- Made in Germany, certified production

The tester is supplied complete with loading unit, load plate, measuring instrument and application video on USB stick (in carrying case). Printer, GPS and PC-Software are optional.

Total Weight: 30 kg



S229-14

ACCESSORIES:

S229-05 DROP weight of 15 kg with max. impact force of 10605N, complete of calibration certificate.

S229-10 PROTOCOL SOFTWARE. Add information about the measuring point and use the comfortable user interface for issuing and easy-view archiving of representative A4-protocols.

S229-11 THERMAL PRINTER. Small, quick printer with light resistant thermal paper.

S229-12 EXTERNAL GPS-Receiver. To proof the exact coordinates of the measuring point.

S229-13 TRANSPORT CART. Collapsible, for long distances at the site.

S229-14 MAGNETIC BASE PLATE. For proper positioning of loading unit.

S229-15 TRANSPORT BOX. Wood, for the safe transport and storage.

