

DIN EN 13041:2012-01 (E)

Soil improvers and growing media - Determination of physical properties - Dry bulk density, air volume, water volume, shrinkage value and total pore space

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle	5
5	Apparatus	5
5.1	Double rings (see Figure A.1)	5
5.1.1	General	5
5.1.2	Lower sample ring	5
5.1.3	Upper ring	5
6	Preparation	6
7	Procedure	6
7.1	Moistening, saturating and equilibration at -50 cm water (-5 kPa) pressure head	6
7.2	Filling tubes	6
7.3	Suction -10 cm water (-1 kPa) pressure head	7
7.4	Separation of rings	7
7.5	Optional suction -50 cm and -100 cm water (-5 kPa and - 10 kPa) pressure head	7
7.6	Drying	7
7.7	Organic matter (Wom)	8
7.8	Ash content (Wash)	8
8	Expression of results	8
8.1	Volume of the sample ring	8
8.2	Dry bulk density	8
8.3	Shrinkage value	9
8.4	Particle density	9
8.5	Total pore space	9
8.6	Water volume	10
8.7	Air volume	10
9	Number of replicates	11
10	Precision	11
11	Test report	11
Annex A (normative) Construction of sand suction table		12
Annex B (informative) Results of interlaboratory trial to determine the physical characteristics		16
Bibliography		26