

SLOVENSKI STANDARD **oSIST prEN 17542-5:2025**

01-december-2025

Zemeljska dela - Geotehnični laboratorijski preskusi - 5. del: Preskusna metoda za merjenje enodimenzionalnega nabrekanja tal v edometričnih pogojih

Earthworks - Geotechnical laboratory tests - Part 5: Test method for measurement of one-dimensional swelling of soils under oedometric condition

Erdarbeiten - Geotechnische Laborversuche - Teil 5: Prüfverfahren zur Messung der eindimensionalen Quellung von Böden Standards

(https://standards.iteh.ai)

Ta slovenski standard je istoveten z: prEN 17542-5

ICS:

93.020 Zemeljska dela. Izkopavanja. Earthworks. Excavations.

Gradnja temeljev. Dela pod Foundation construction. zemljo Underground works

oSIST prEN 17542-5:2025 en,fr,de

iTeh Standards (https://standards.iteh.ai) Document Preview

<u>oSIST prEN 17542-5:2025</u>

https://standards.iteh.ai/catalog/standards/sist/f7c6600c-138f-4add-9d1d-83c638292c42/osist-pren-17542-5-2025

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN 17542-5

October 2025

ICS 93.020

English Version

Earthworks - Geotechnical laboratory tests - Part 5: Test method for measurement of one-dimensional swelling of soils under oedometric condition

Erdarbeiten - Geotechnische Laborversuche - Teil 5: Prüfverfahren zur Messung der eindimensionalen Quellung von Böden

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 396.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning: This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

prEN 17542-5:2025 (E)

Cont	tents Pa	age
European foreword		
Introduction4		4
1	Scope	5
2	Normative references	5
3	Terms, definitions, symbols and abbreviated terms	5
3.1 3.2	Terms and definitionsSymbols and abbreviated terms	
4	Tests principle	
4.1	Method A: One dimensional wetting-induced swelling pressure of a soil	
4.2	Method B: Axial swelling index of a specimen under a defined vertical stress	
4.3	Method C: Constrained swelling pressure of a specimen after wetting	8
5	Equipment and test material	8
6	Operating procedures	8
6.1	General	8
6.2	Specimen preparation	
6.2.1	Reconstituted specimen	
6.2.2	Undisturbed sampleConduct of the tests	9
6.3		
6.3.1 6.3.2	Method A: One dimensional wetting-induced swelling pressure of a soil	
6.3.3	Method B: Axial swelling index of a specimen under a defined vertical stress Method C: Constrained swelling pressure of a specimen after wetting	
0.3.3		
7	Test report Document Preview	.13
Annex A (informative) Measurement of swelling pressure according to prEN 17542-5 — Test report14		
Annex B (informative) Measurement of axial swelling index according to prEN 17542-5 — Test report		
Annex C (informative) Measurement of constrained swelling pressure according to prEN 17542-5 — Test report20		
Bibliography23		