

STN	Zemné práce Geotechnické laboratórne skúšky Časť 3: Hodnota metylénovej modrej VBS zemín a hornín	STN EN 17542-3 73 3002
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Earthworks - Geotechnical laboratory tests - Part 3: Methylene blue value VBS on soils and rocks

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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**Earthworks - Geotechnical laboratory tests - Part 3:
Methylene blue value VBS on soils and rocks**

Terrassements - Essais géotechniques en laboratoire -
Partie 3 : Valeur de bleu de méthylène VBS d'un sol ou
d'une roche

Erdarbeiten - Geotechnische Laborversuche - Teil 3:
Methylenblauwert VBS an Boden und Fels

This European Standard was approved by CEN on 20 April 2022.

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EN 17542-3:2022 (E)

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European foreword

This document (EN 17542-3:2022) has been prepared by Technical Committee CEN/TC 396 “Earthworks”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2022, and conflicting national standards shall be withdrawn at the latest by December 2022.

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EN 17542-3:2022 (E)**Introduction**

The Methylene blue value V_{BS} on soils and rocks is an identification parameter adopted in the classification of materials for earthworks according to EN 16907-2. It is also used for providing some specifications for construction procedures according to EN 16907-3.

1 Scope

This document describes the reference method for the determination of the methylene blue value (V_{BS}) in soils and rocks for earthworks.

The test is based on measuring the quantity of methylene blue that can be adsorbed by the material suspended in water. This quantity of adsorbed methylene blue is reported by direct proportionality to the 0/50 mm ground. The soil blue value is directly related to the specific surface area of the soil particles or rocky material.

NOTE The V_{BS} test uses common equipment and calibration as the methylene blue test MB for aggregates (EN 933-9), but it applies to another granular fraction (5 mm for V_{BS} and 2 mm for MB, respectively). Thus, the results obtained between the two tests cannot be compared in the general case.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 17892-1, *Geotechnical investigation and testing - Laboratory testing of soil - Part 1: Determination of water content (ISO 17892-1)*

EN ISO 17892-4, *Geotechnical investigation and testing - Laboratory testing of soil - Part 4: Determination of particle size distribution (ISO 17892-4)*

EN ISO 835, *Laboratory glassware - Graduated pipettes (ISO 835)*

EN ISO 385, *Laboratory glassware - Burettes (ISO 385)*

EN ISO 3819, *Laboratory glassware - Beakers (ISO 3819)*

EN ISO 1042, *Laboratory glassware - One-mark volumetric flasks (ISO 1042)*

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