



Bureau de normalisation  
du Québec

# CAN/BNQ 2501-062/2013 (R 2019)

**Soils — Determination of Minimum and  
Maximum Densities and Density Index of  
Cohesionless Soils — Vibrating Table Test**



Standards Council of Canada  
Conseil canadien des normes



**STANDARD**



CAN/BNQ 2501-062/2013  
(R 2019)

Soils — Determination of Minimum and Maximum Densities and  
Density Index of Cohesionless Soils — Vibrating Table Test

*Sols — Détermination des masses volumiques minimale et maximale et de l'indice de  
densité des sols pulvérulents — Essai à la table vibrante*

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**FIFTH EDITION — 2019-03-01**

This is a reaffirmation (reapproval) of the edition dated April 02, 2013.

The edition number of this English version was corrected to match that of the French version. Therefore, it has been incremented from the third edition to the fifth edition.

The systematic review of this document to determine if it has to be modified, revised, reaffirmed or withdrawn will be initiated no later than end of March 2024.

**ICS :** 13.080.05; 13.080.20; 17.060

ISBN 978-2-551-26403-2 (printed version)  
ISBN 978-2-551-26405-6 (PDF)

Legal deposit — Bibliothèque et  
Archives nationales du Québec, 2019

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This document was developed in compliance with the Standards Council of Canada (SCC)'s Requirements and Guidance for standards development organizations and approved as a reaffirmed National Standard of Canada by the SCC. Its reaffirmation was approved by a Standards Development Committee, whose members were:

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**SOILS — DETERMINATION OF MINIMUM AND MAXIMUM  
DENSITIES AND DENSITY INDEX OF COHESIONLESS SOILS —  
VIBRATING TABLE TEST**

**1**        **PURPOSE**

This standard specifies laboratory test methods that shall be used to determine minimum and maximum densities of cohesionless soils first by pouring the loose material and then by densification of the material using vibration. These two densities are used to calculate the density index.

**2**        **SCOPE**

This standard applies to free draining cohesionless soils containing up to 10 % in weight of particles able to pass through a 80- $\mu$ m sieve and which contain not more than 10 % in weight of particles retained on a 80-mm sieve.

NOTE — When the soil contains from 10 % to 30 % in weight of particles retained on the 80-mm sieve, this standard may be applied using a correction factor according to the document ASTM D4718. This standard does not apply to soils containing more than 30 % in weight of particles retained on the 80-mm sieve.

**3**        **NORMATIVE REFERENCES**

The references below (including any amendment or errata) are normative references, and are therefore considered mandatory. They are essential to the understanding and use of this document, and are cited in appropriate places in the text.

NOTE — This document also cites informative references that are of a non-mandatory nature. A list of these references is provided in the appendix.

It should be noted that a dated normative reference refers to that specific edition of the reference, while a non-dated normative reference refers to the latest edition of the reference in question.