



Bureau de normalisation
du Québec

CAN/BNQ 2501-170/2014 (R 2022)

Soils — Determination of Water Content

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STANDARD

CAN/BNQ 2501-170/2014
(R 2022)

Soils — Determination of Water Content

Sols — Détermination de la teneur en eau

BNQ
Bureau de normalisation
du Québec

Bureau de normalisation du Québec

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FIFTH EDITION — 2022-04-28

This is a reaffirmation (reapproval) of the edition dated January 21, 2014.

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 decision resulting from the systematic review that will enable to determine whether the current document shall be modified, revised, reaffirmed or withdrawn will be implemented no later than at the end of April 2027.

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FOREWORD

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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The 2014 edition of this document was approved as a National Standard of Canada by the Standards Council of Canada (SCC). It was approved by a Standards Development Committee, whose voting members were:

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SOILS — DETERMINATION OF WATER CONTENT

1 PURPOSE AND SCOPE

This standard specifies a test method used to determine the water content of a soil.

2 DEFINITION

For the purpose of this document, the following definition shall apply:

water content (w), n. the ratio, as a percentage, of the mass of water contained in a soil sample to the mass of solid particles. French: *teneur en eau (w)*.

NOTE — The mass of solid particles is obtained after oven drying to a constant mass.

3 EQUIPMENT

3.1 OVEN

A temperature-regulated oven, preferably with forced ventilation and capable of maintaining a constant temperature of $110\text{ °C} \pm 5\text{ °C}$, shall be used.

3.2 SCALES

A scale with a reading accuracy of at least 0.01 g for samples weighing less than 100 g, a scale with a reading accuracy of 0.1 g for samples weighing from 100 g to 1 000 g, and finally a scale with a reading accuracy of 1 g for samples weighing over 1 000 g, shall be used.

3.3 CONTAINERS

Corrosion-resistant containers shall be used, whose mass shall remain unchanged after repeated heating.