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CSA A3000:23
National Standard of Canada

Cementitious materials compendium

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This edition of CSA A3000 is dedicated to the memory of Vice-Chair Dr. Michael Thomas (Department of Civil Engineering, University of New Brunswick), who has made significant contributions to the development of several editions of the CSA A3000 Standards. Sadly, Dr. Thomas passed away in December of 2022 prior to the final ballot for this edition.

Preface

This is the sixth edition of CSA A3000, *Cementitious materials compendium*. It supersedes the previous editions published in 2018, 2013, 2008, 2003, and 1998.

The following are the major changes to this edition:

a) addition of testing frequencies for internal sulphate attack (see CSA A3004-C5);
b) addition of chemical requirements for ground glass pozzolans;
c) addition of lime-pozzolan activity test requirements for natural pozzolans;
d) changes in the sulphate resistance testing requirements, allowing the use of CSA A3004-C6 for portland or portland-limestone cements;
e) addition of a new test method for measuring the percent passing the 160-micron sieve to support the limit required for harvested fly ash (see Table A.3);
f) creation of classes of supplementary cementitious materials (SCMs), allowing products from within the same class of SCM to be blended to produce a compliant type of SCM;
g) removal of the LOI limit in Table 7 for natural pozzolans;
h) added permissions for the use of ground glass in blended hydraulic cements with LOI restrictions;
i) removal of atmospheric the steam test (CSA A3004-B4) along with requirements for masonry and mortar cement;
j) removal of the autoclave expansion test (CSA A3004-B5) along with the requirements listed in CSA A3001, Tables 4, 5, 6, and 8 and CSA A3002, Table 1;
k) removal of the heat of hydration, heat of solution test (CSA A3004-B7) along with the requirements listed in CSA A3001, Tables 4, 5, 6, and A.3, and all the related MH and LH type designations throughout compendium; and
l) other changes to harmonize with various ASTM and ACI publications, including change of terminology from supplementary cementing materials to supplementary cementitious materials.

CSA Group acknowledges that the development of this Standard was made possible, in part, by the financial support of the Cement Association of Canada.

These Standards were prepared by the Technical Committee on Cementitious Materials Compendium, under the jurisdiction of the Strategic Steering Committee on Construction and Civil Infrastructure, and have been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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