
Standard Practice for Evaluating Deicing Chemicals

AASHTO Designation: R 34-03 (2022)¹

Technically Revised: 2003

Reviewed but Not Updated: 2022

Tech Subcommittee: 5c, Quality Assurance and Environmental



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1. SCOPE

- 1.1. This practice includes a set of test procedures for the evaluation of deicing chemicals.
- 1.2. *This procedure may involve hazardous materials, operations, and equipment. It does not purport to address all of the safety concerns associated with its use. It is the responsibility of the user of this practice to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*
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2. REFERENCED DOCUMENTS

- 2.1. *SHRP Documents:*
- SHRP H-332, Handbook of Test Methods for Evaluating Chemical Deicers
 - SHRP H-332—Appendix B, containing the following 11 tests:
 - SHRP H-205.1, Ice Melting Capacity of Solid Deicing Chemicals
 - SHRP H-205.2, Ice Melting Capacity of Liquid Deicing Chemicals
 - SHRP H-205.3, Ice Penetration of Solid Deicing Chemicals
 - SHRP H-205.4, Ice Penetration of Liquid Deicing Chemicals
 - SHRP H-205.5, Ice Undercutting by Solid Deicing Chemicals
 - SHRP H-205.6, Ice Undercutting by Liquid Deicing Chemicals
 - SHRP H-205.7, Evaluation of Corrosive Effects of Deicing Chemicals on Metals
 - SHRP H-205.8, Rapid Evaluation of Effects of Deicing Chemicals on Concrete
 - SHRP H-205.9, Evaluation of Scaling Effects of Deicing Chemicals on Concrete Surfaces
 - SHRP H-205.10, Evaluation of Frictional Characteristics of Deicer Chemicals
 - SHRP H-205.12, Evaluation of Corrosive Effects of Deicing Chemicals on Steel Reinforcement in Concrete
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3. GENERAL PROVISIONS

- 3.1. It is recommended that the procedures included in Section 2 be used for the complete characteristics of deicing chemicals.

¹ Formerly AASHTO Provisional Standard PP 29. First published as a full standard in 2003.