

**External fusion bond epoxy
coating for steel pipe,
External polyethylene
coating for pipe**



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Update No. 2

Z245.20-06/Z245.21-06

September 2008

Note: General Instructions for CSA Standards are now called Updates. Please contact CSA Information Products Sales or visit www.ShopCSA.ca for information about the **CSA Standards Update Service**.

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The following revisions have been formally approved and are marked by the symbol delta (Δ) in the margin on the attached replacement pages:

Revised	Z245.20-06/Z245.21-06: Contents Z245.20-06: Clauses 7.3.1.4, 7.3.2.7.1.1, 7.3.2.7.1.2, and 12.16.2.3 and Tables 2–4 and 6–8 Z245.21-06: Clauses 6.1.1–6.1.4, 7.4.2.2, and 8.3.4
New	Z245.21-06: Clauses 7.4.2.2.1, 7.4.2.2.2, and 7.4.2.3
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CSA Z245.20-06/Z245.21-06 originally consisted of **90 pages** (xvi preliminary and 74 text), each dated **December 2006**. It now consists of the following pages:

December 2006	ix–xvi, 1–6, 13–24, 27–30, 37–46, 49, 50, and 55–74
June 2007	iii, iv, 7, 8, 11, 12, 25, and 26
September 2008	v–viii, 9–12, 31–36, 47, 48, and 51–54A

- Update your copy by inserting these revised pages.
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Z245.20-06

External fusion bond epoxy coating for steel pipe

1 Scope

1.1

This Standard covers the qualification, application, inspection, testing, handling, and storage of materials required for plant-applied fusion bond epoxy (FBE) coating applied externally to bare steel pipe. The coated pipe is intended primarily for buried or submerged service for oil or gas pipeline systems.

1.2

This Standard covers the following coating systems:

- (a) System 1A: single-layer FBE with a glass transition temperature of 110 °C or less;
- (b) System 1B: single-layer FBE with a glass transition temperature greater than 110 °C;
- (c) System 2A: two-layer FBE with a corrosion coating and a protective overcoat;
- (d) System 2B: two-layer FBE with a corrosion coating and an abrasion-resistant overcoat;
- (e) System 2C: two-layer FBE with a corrosion coating and an anti-slip overcoat; and
- (f) System 3: three-layer FBE with an anti-slip overcoat applied over a corrosion coating and a protective overcoat.

1.3

In CSA Standards, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; “may” is used to express an option or that which is permissible within the limits of the standard; and “can” is used to express possibility or capability. Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material. Notes to tables and figures are considered part of the table or figure and may be written as requirements. Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, unless the user finds it more appropriate to use newer or amended editions of such publications.

CSA (Canadian Standards Association)

CAN/CSA-ISO 9001-00 (R2005)

Quality management systems — Requirements

ASTM International (American Society for Testing and Materials)

E 29-06a

Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications