AS 4822—2008
(Incorporating Amendment No. 1)

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Australian Standard®

External field joint coatings for steel pipelines

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The following are represented on Committee ME-038:

- API Research and Standards Committee
- Australasian Corrosion Association
- Australian Chamber of commerce and Industry
- Australian Institute of Petroleum
- Australian Pipeline Industry Association
- Bureau of Steel Manufacturers of Australia
- Department of Consumer and Employment Protection (WA)
- Department of Mines and Energy (Qld)
- Department of Primary Industry, Fisheries and Mines (NT)
- Department of Water and Energy (NSW)
- Energy Networks Association
- Energy Safe Victoria
- Gas Association of New Zealand
- Primary Industries and Resources SA
- Welding Technology Institute of Australia

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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External field joint coatings for steel pipelines

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PREFACE

This Standard was prepared by Standards Australia Committee, ME-038, Petroleum Pipelines.

This Standard incorporates Amendment No. 1 (April 2010). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide manufacturers, suppliers, specifier and users of oil and gas pipelines the application of and testing requirements for external field joint coatings (FJCs) of seamless or welded steel pipelines for onshore steel pipelines.

The performance of field joint coatings is a critical part of the corrosion protection of steel pipelines. This Standard makes no appraisal of the relative performance of the coating systems that are covered herein. There should be careful selection of the field joint coating chosen for each application, taking into account its importance in providing satisfactory corrosion protection for the service life under the construction and operating conditions of the pipeline.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to figures and tables are deemed to be requirements of this Standard. All other notes are for information and guidance only.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets minimum requirements for the field joint coating (FJC) of seamless or welded steel onshore pipelines. It specifies the application and testing of the corrosion protection coatings applied to steel surfaces left bare after the pipes and fittings (components) are joined by welding. Field joints and other specific points are coated on-site.

NOTES:

1 Information to be supplied at the time of order is given in Appendix A.

2 Means for demonstrating compliance with this Standard are given in Appendix B.

1.2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document.

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS	
1145	Determination of tensile properties of plastics materials
1145.3	Part 3: Test conditions for films and sheets
1391	Metallic materials—Tensile testing at ambient temperature
1627	Metal finishing—Preparation and pretreatment of surfaces
1627.2	Part 2: Power tool cleaning
1627.4	Part 4: Abrasive blast cleaning of steel
1627.9	Part 9: Pictorial surface preparation standards for painting steel surfaces
2706	Numerical values—Rounding and interpretation of limiting values
3894	Site testing of protective coatings
3894.1	Part 1: Non-conductive coatings—Continuity testing—High voltage ('brush') method
3894.3	Part 3: Determination of dry film thickness
3894.4	Part 4: Assessment of degree of cure
3894.5	Part 5: Determination of surface profile
3894.6	Part 6: Determination of residual contaminants
3894.9	Part 9: Determination of adhesion
4352	Testing for coating resistance to cathodic disbonding
AS/NZS	
3862	External fusion-bonded epoxy coating for steel pipes
ASTM	
D2240	Standard Test Method for Rubber Property—Durometer Hardness
ISO	
868	Plastics and ebonite—Determination of indentation hardness by means of a durometer (Shore hardness)
SSPC	Steel Structures Paint Council
SP1	Surface preparation specification no. 1