



# Petroleum, petrochemical and natural gas industries — Non-metallic materials in contact with media related to oil and gas production

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Part 1: Thermoplastics (ISO 23936-1:2009, MOD)



AS 23936.1:2022

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- Australian Organization for Quality
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- Australian Pipelines and Gas Association
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- Department of Mines, Industry Regulation and Safety WA
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## Preface

This Standard was prepared by the Standards Australia Committee ME-092, Materials, equipment, structures and related services for petroleum, petrochemical and natural gas industries.

The objective of this document is to present general principles and give requirements and recommendations for the selection and qualification, as well as guidance for the quality assurance, of non-metallic materials for service in equipment used in oil and gas production environments where the failure of such equipment could pose a risk to the health and safety of the public and personnel or to the environment. It can be applied to help to avoid costly corrosion failures of the equipment itself. It supplements, but does not replace, the material requirements given in the appropriate design codes, standards or regulations.

This document addresses the resistance of thermoplastics to the deterioration in properties that can be caused by physical or chemical interaction with produced and injected oil and gas-field media, and with production and chemical treatment. Interaction with sunlight is included; however, ionizing radiation is excluded from the scope of this document.

This document is not necessarily suitable for application to equipment used in refining or downstream processes and

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The equipment considered includes, but is not limited to, non-metallic pipelines, piping, liners, seals, gaskets and washers.

This document is an adoption with national modifications, and has been reproduced from, ISO 23936-1:2009, *Petroleum, petrochemical and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics*. The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to ISO 23936-1:2009 for the application of this document in Australia.

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The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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