

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

**Part 1: Thermoplastics (ISO
23936-1:2009)**

ICS 75.180.01

National foreword

This British Standard is the UK implementation of EN ISO 23936-1:2009.

BSI, as a member of CEN, is obliged to publish EN 23936-1 as a British Standard. However, attention is drawn to the fact that during the development of this European Standard, the UK committee voted against its approval as a European Standard.

The UK Committee believes that a more comprehensive approach to the qualification of thermoplastics under realistic conditions for the oil and gas sector is possible through using BS EN ISO 23936-1 in association with other codes for the following instances:

- When deciding on test methodology for large applications refer to API Technical Report 17TR:2003. Preliminary and application-focused longer term testing choices are indicated and potential failure modes are discussed. For small applications, refer to the latest revision of NORSOK standard M-710. Refer to the BS EN ISO 13628 series in subsea applications, the BS EN 1555 series and the BS EN 12201 series in polyethylene pipe applications, BS EN ISO 10423 for wellhead applications and BS EN 13942 (ISO 14313 modified) for valve applications.
- The hydrocarbon mixture in the simulated production mixture can be found in Table B.1 in this standard. If a UK user should consider that the oil to be simulated for the area of interest is so different from the one in Table B.1 that incorrect liquid absorption characteristics would be measured when testing, then the latest revision of NORSOK standard M-710 referring to thermoplastics and elastomers contains a range of similarly-devised optional hydrocarbon mixtures.
- Guidance can also be found in BS EN ISO 10423:2004 - Petroleum and natural gas industries – Drilling and production equipment – Wellhead and christmas tree equipment – when selecting test temperatures aligned with those for testing components containing thermoplastics.
- According to the UK committee Subclause 4.2 of this Standard does not adequately present the characteristic properties for some variants of some of the materials listed, and for some other contender materials for oil & gas sector service. For up-to-date guidance on initial material selection based on material property magnitudes, refer to established reference books or materials manufacturers’ literature for oil & gas sector service, and/or conduct confirmatory testing.

The UK participation in its preparation was entrusted to Technical Committee PSE/17/-/7, UK experts in ISO TC 67 Working Groups.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2009.

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ISBN 978 0 580 57000 1

Amendments/corrigenda issued since publication

Date	Comments