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Oil and gas industries including lower carbon energy — Internal coating of carbon steel process vessels —

Part 2: Requirements and guidance for the selection of coating systems

Industries du pétrole et du gaz, y compris les énergies à faible teneur en carbone — Revêtement de protection interne des récipients de production en acier au carbone —

Partie 2: Exigences et recommandations pour le choix des systèmes de revêtement

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Foreword

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This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*.

A list of all parts in the ISO 18796 series can be found on the ISO website.

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Introduction

By providing requirements and guidance for the selection of coating materials, this document:

— ensures the long-term performance of coating materials.

— ensures that coating materials selected meet the needs of a broad range of end users in the oil and gas industries.

— enables coating manufactures to develop and provide coatings that meet the requirements of this document.

Oil and gas production projects benefit from a structured evaluation of coatings performance for the different process liquids and gases being handled within process vessels**.**

The main objective of this document is to provide general requirements with guidance for the selection of coatings for the internal surfaces of process vessels, with due consideration to the liquids and gases contained within the vessel and the impact of the external environment. Particular attention is paid to key parameters such as operating temperature, pressure, and presence of abrasion, amongst others. It is the end user's responsibility to provide a project document with respect to the implementation of the requirements and guidance of this document, and to specify the design conditions for coating selection. In addition to the end user, the organization responsible for the facility or for the process equipment design, or for both, is regarded as responsible for coating selection.

This document is developed to provide responsible parties with a structured process to carry out evaluation of proposed coatings in a consistent manner as a part of the engineering work, with a design basis for a particular installation or equipment item. Further this document is intended for use by oil companies and engineering contractors. Further or differing requirements can be needed for individual applications.