DIN EN ISO 12736-2:2024-02 (E)

Oil and gas industries including lower carbon energy - Wet thermal insulation systems for pipelines and subsea equipment - Part 2: Qualification processes for production and application procedures (ISO 12736-2:2023); English version EN ISO 12736-2:2023

Contents

Page

Foreword ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **2**

4 Symbols and abbreviated terms **7**
4.1 Symbols 7
4.2 Abbreviated terms 9

5 Conformance **9**
5.1 Rounding 9
5.2 Conformity to requirement 9

6 Material classes **10**

7 Project specific qualification processes for production and application procedures **10**
7.1 General requirements 10
7.2 Purchase order requirements 11
7.2.1 General information 11
7.2.2 Additional information 11
7.3 Production qualification process 12
7.3.1 Process description 12
7.3.2 Project specific qualification considerations 12
7.3.3 Procedure qualification trial 13
7.3.4 Pre-production trial 14
7.3.5 Production testing 14
7.4 Application procedures 14
7.4.1 Application procedure specification 14
7.4.2 Inspection and test plan 15
7.4.3 Qualification of operators 16

8 Production testing and inspection **17**
8.1 General 17
8.2 Material tests and inspection 17
8.3 System tests and inspection 18
8.4 Inspection documents and traceability 18
8.5 Guidance in generating an ITP 18

9 Factory repair **35**
9.1 General 35
9.2 Damage/defect characterization 35
9.3 Testing 35

10 Final documentation **35**

11 Handling, storage and transportation **36**
11.1 Handling, storage and transportation at coating yard 36
11.2 Handling, storage and transportation at site 36

Annex A (informative) **Guidelines for using this document** **37**

Annex B (informative) **Guidelines on the design of wet thermal insulation systems on a project basis** **42**

Annex C (informative) **Fatigue test** **48**

Annex D (normative) **k-value for projects** **49**

Annex E (normative) **Inorganic microsphere content and breakage and air entrapment in inorganic syntactic foams** **56**

Bibliography **59**