

ISO 12736-2:2023-10 (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

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