

DIN EN ISO 12736-3:2024-02 (E)

Oil and gas industries including lower carbon energy - Wet thermal insulation systems for pipelines and subsea equipment - Part 3: Interfaces between systems, field joint system, field repairs and prefabricated insulation (ISO 12736-3:2023); English version EN ISO 12736-3:2023

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Abbreviated terms	8
5	Conformance	8
5.1	Rounding	8
5.2	Conformity to requirement	8
6	Field joint material, system interfaces and repairs	8
6.1	Material classes	8
6.2	Types of interfaces	9
7	Project specific qualification processes for production and application procedures for field joints	9
7.1	General requirements	9
7.2	Purchase order requirements	10
7.2.1	General information	10
7.2.2	Additional information	11
7.3	Production qualification process	11
7.3.1	Process description	11
7.3.2	Project specific qualification considerations	12
7.3.3	Procedure qualification trial	12
7.3.4	Pre-production trial	13
7.3.5	Production testing	13
7.4	Application procedures	13
7.4.1	Application procedure specification	13
7.4.2	Inspection and testing plan	15
7.4.3	Qualification of operators	15
8	Production testing and inspection for field joints	17
8.1	General	17
8.2	Material tests and inspection	17
8.3	System test and inspection	17
8.4	Inspection documents and traceability	17
8.5	Guidance in generating an ITP	17
9	Requirements for field repairs of wet thermal insulation and field joints	34
9.1	General	34
9.2	Damage/defect characterization	34
9.3	Repair materials for each of the material classes and compatibility	34
9.4	Repair execution	34
10	Final documentation	34
11	Pre-fabricated insulation	35
11.1	General	35
11.2	Material classes	35
11.3	Project specific qualification processes	35
11.4	Information to be supplied by the system purchaser	36

11.5	Manufacturing of pre-fabricated insulation	36
11.6	Inspection and testing plan.....	36
11.7	Requirements for repairs.....	37
	11.7.1 General	37
	11.7.2 Damage/Defect characterization.....	37
	11.7.3 Repair method.....	38
	11.7.4 Repair materials	38
11.8	Final documentation	38
11.9	Installation of pre-fabricated insulation.....	47
12	Handling, storage and transportation at site for field joints and pre-fabricated insulation.....	47
Annex A	(informative) Guidelines for using this document.....	48
Annex B	(informative) Guidelines on the design of field joint systems on a project basis.....	52
Annex C	(informative) Field joint adhesion testing.....	55
Annex D	(informative) Guidelines for pre-fabricated insulation	58
Annex E	(informative) Pre-fabricated insulation leak test.....	62
Bibliography	65