

DIN EN ISO 13628-10:2007-01 (E)

Petroleum and natural gas industries - Design and operation of subsea production systems - Part 10: Specification for bonded flexible pipe (ISO 13628-10:2005); English version EN ISO 13628-10:2006

Inhalt	Seite
Foreword	4
Introduction.....	5
1 Scope	6
1.1 Purpose	6
1.2 Products	6
1.3 Applications	7
2 Normative references.....	7
3 Terms, definitions and abbreviations.....	10
3.1 Terms and definitions	10
3.2 Symbols and abbreviations.....	15
4 Functional requirements	16
4.1 General	16
4.2 Overall requirements.....	16
4.3 General design parameters	16
4.4 Internal fluid parameters	17
4.5 External environment.....	18
4.6 System requirements	19
5 Design requirements.....	22
5.1 Loads and load effects.....	22
5.2 Pipe design methodology.....	25
5.3 Pipe structure design.....	26
5.4 System design requirements	31
6 Materials	33
6.1 Material requirements	33
6.2 Qualification requirements	38
6.3 Quality assurance requirements.....	44
7 Manufacturing requirements.....	45
7.1 Quality assurance requirements.....	45
7.2 Carcass.....	47
7.3 Preparation of compound and calendering.....	47
7.4 Elastomer winding.....	48
7.5 Reinforcement armour layer	49
7.6 Insulation layers	49
7.7 End fitting.....	50
7.8 Curing process	51
7.9 Special processes	52
7.10 Manufacturing tolerances.....	54
7.11 Repairs	54
8 Documentation	55
8.1 General	55
8.2 Design premise.....	55
8.3 Design load report.....	55
8.4 Design report	55
8.5 Manufacturing quality plan.....	56
8.6 Fabrication specification	56

8.7	As-built documentation.....	56
8.8	Operation manual	57
9	Factory acceptance tests	58
9.1	General	58
9.2	Gauge test	59
9.3	Hydrostatic pressure test	59
9.4	Electrical continuity and resistance tests	60
9.5	Kerosene test.....	60
9.6	Vacuum test	60
10	Marking and packaging	61
10.1	Marking.....	61
10.2	Packaging.....	61
	Annex A (informative) Purchasing guidelines	63
	Annex B (informative) Bend stiffeners and bend restrictors.....	70
	Annex C (informative) Use of the API Monogram.....	75
	Bibliography.....	76