

ISO 18735:2026-03 (E)

Ships and marine technology - High-manganese austenitic steel - Specification for high-manganese austenitic steel castings for cryogenic temperature

Contents		Page
Foreword.....		iv
Introduction.....		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		2
4 Abbreviated terms		3
5 Health, safety and quality requirements		4
5.1 Health and safety requirements.....		4
5.2 Quality requirements.....		4
6 Material designation		4
7 Manufacture		5
7.1 Steel making practice.....		5
7.2 Moulding.....		5
8 Chemical composition		5
9 Heat treatment		6
9.1 Temperature uniformity survey (TUS) for heat treatment furnace.....		6
9.2 Heat treatment.....		7
10 Mechanical properties		7
10.1 Preparation of test specimens.....		7
10.2 Extent of testing.....		8
10.3 Mechanical properties.....		8
10.3.1 General.....		8
10.3.2 Tensile testing.....		8
10.3.3 Impact testing.....		9
10.3.4 Bend testing.....		9
10.4 Retesting.....		9
11 Inspection		10
11.1 General requirements.....		10
11.2 Visual inspection.....		10
11.3 Liquid penetrant inspection.....		10
11.4 Radiographic inspection.....		10
11.5 Ultrasonic inspection.....		11
11.6 Hydrostatic testing.....		11
12 Repairs		12
13 Dimension inspection		13
14 Traceability, handling and packing		13
15 Documentation		13
Bibliography.....		15