



**International
Standard**

ISO 18819

**Ships and marine technology —
High-manganese austenitic steel —
Specification for plates, sheets and
coils below 6,0 mm for cryogenic
temperature**

Navires et technologie maritime — Acier austénitique à haute teneur en manganèse — Spécifications applicables aux tôles, feuilles et bobines d'épaisseur inférieure à 6,0 mm pour service à température cryogénique

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Foreword

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This document was prepared by Technical Committee TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

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Introduction

The newly developed, high-manganese austenitic steel is expected to possess mechanical properties including Charpy impact energy values comparable to those materials for cryogenic service listed in both the IGC Code^[1] and IGF Code.^[2] Consequently, high-manganese steel is intended to satisfy the strength requirements of the structure of cargo tanks, fuel tanks and piping systems.

In addition, upon agreement with a purchaser, this document can be applied to piping systems for liquefied hydrogen.

This document provides a standard specification of high-manganese austenitic steel plate, sheet, strip and coil for material manufacturers, ship owners, ship yards and shipping companies with regard to producing, purchasing and using such materials.

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