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WES

Evaluation Criterion of Rolled Steels for Low Temperature Application

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1. Scope

This standard is applied to the hot rolled steel plates approved by **JWES** for fusion welded structures in low temperature service. The applicable plate thickness is 6mm to 100mm incl., the minimum specified yield point or proof stress of the plates is 685N/mm² and under. and the service temperature of the plates shall be 0°C to -196°C incl..

The reference standards

JIS Z 2201 Test Pieces for Tensile Test for Metallic Materials

JIS Z 2202 Test Pieces for Impact Test for Metallic Materials

JIS Z 8401 Rules for Rounding off of Numerical Values

2. Grade and Designation

2.1 Characteristics

Steel plates are classified to G-use and A-use according to the characteristics of plates.

G-use (Symbol G) plates are applied to welded structures designed under ordinary consideration about, brittle fracture. A-use (Symbol A) plates are applied to welded structures or their particular portion designed under especially focused consideration about brittle fracture.

2.2 Plate thickness and service temperature

The plates are classified as shown in **Table 1** and **2** according to the plate thickness and the minimum service temperature.

Table 1 Classification of plate thickness

Nominal thickness (mm)	Classified thickness Symbol	Nominal thickness (mm)	Classified thickness Symbol
6 and over, to 13 incl.	I	Over 32, to 40 incl	V
Over 13, to 20 incl.	II	Over 40, to 50 incl	VI
Over 20, to 26 incl.	III	Over 50, to 70 incl	VII
Over 26, to 32 incl.	IV	Over 70, to 100 incl	VIII