

API Specification

2W

Fifth Edition, December 2006

Specification for Steel Plates for Offshore Structures, Produced by Thermo-mechanical Control Processing (TMCP)

Suggestions for Ordering API Spec 2W Steel Plate

API Monogram[®] Required

☐ Yes ☐ No

In placing orders for steel plate to be manufactured in accordance with API Spec 2W, the purchaser should specify the following on the purchase order:

Specification	API Spec 2W
Quantity/Size	As Required
Grade	42, 50, 50T, or 60
Process of Manufacture	Subsection 3.2.2
Mill Inspection by Purchaser	State Advance Notice Requirements
Delivery Date and Shipping Instructions	As Required
Supplementary Requirements	As Required

The purchaser should state on the purchase order the requirements concerning the following Supplementary Requirements, which are optional with the purchaser.

NOTE Section 1 of this specification addresses the purpose/function of several of the supplementary requirements.

S1	Ultrasonic Examination	<input type="checkbox"/>
S2	Notch Toughness at Lower Temperatures	<input type="checkbox"/>
S2.1	Notch Toughness at –60 °C	<input type="checkbox"/>
S2.2	Notch Toughness at Other Than –40 °C or –60 °C	<input type="checkbox"/>
S2.3	Higher Notch Toughness Energy Values	<input type="checkbox"/>
S3	Additional Tension Test	<input type="checkbox"/>
S4	Through-thickness (Z-direction) Testing	<input type="checkbox"/>
S5	Low Sulfur Steel for Improved Through-thickness Properties	<input type="checkbox"/>
S7	Low Nitrogen Content for Improved Notch Toughness in Strain-aged Condition	<input type="checkbox"/>
S8	Strain-aged Charpy V-Notch Impact Test	<input type="checkbox"/>
S9	Simulated Post-weld Heat Treatment	<input type="checkbox"/>

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S10	Hardness Testing	<input type="checkbox"/>
S11	Preproduction Qualification	<input type="checkbox"/>
S11.3	CTOD Testing of Weld Heat Affected Zone	<input type="checkbox"/>
S11.4	Weldability (Hydrogen Cracking) Tests at	<input type="checkbox"/>
	- CP (Conventional Preheat) Level of Performance	<input type="checkbox"/>
	- MP (Modified Preheat) Level of Performance	<input type="checkbox"/>
S12	Notch Toughness Using Drop Weight	<input type="checkbox"/>
S13	Surface Quality	<input type="checkbox"/>
S14	Thickness Tolerance	<input type="checkbox"/>

NOTE Nothing in this specification should be interpreted as indicating a preference by the committee for any material or process. In the selection of materials and processes, the purchaser must be guided by the experience and by the service for which the plate is intended.