

MATERIAL DATA SHEET MDS - Y20**Rev. 5** June 2007**TYPE OF MATERIAL:** Structural steel with documented through thickness properties

PRODUCT	STANDARD	GRADE	
Plates	EN 10225	S355G10+N/G10+M	
SCOPE	This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard.		
QUALIFICATIONS	<p>Base material information, shall be submitted with the bid/ be established prior to delivery.</p> <p>The documentation of base material shall cover both delivered and PWHT condition and shall include strain ageing tests (see option 12), typical tensile test results for plates and weldability tests according to Annex E (option 18) within each of the following thickness ranges that are relevant for the order:</p> <p style="margin-left: 40px;"> $25 < t \leq 40 \text{ mm}$ $40 < t \leq 63 \text{ mm}$ $63 < t \leq 100 \text{ mm}$ $100 < t \leq 150 \text{ mm}$ </p> <p>Other thickness ranges related to same chemistry and manufacturing process may apply. In such cases the thickest material in the range shall be tested. The results from PWHT condition shall also meet the specified requirements.</p> <p>CTOD testing shall be included for weldability testing for $t > 40 \text{ mm}$ and shall meet a requirement of minimum 0,25 mm in as welded condition, and minimum 0,20 mm in PWHT condition unless lower values have been accepted by the purchaser. CTOD testing for thicknesses below 40 mm may be required on the basis of special design criteria.</p>		
HEAT TREATMENT/ DELIVERY CONDITION	Quenched and tempered is also accepted.		
CHEMICAL COMPOSITION	Option 6		
TENSILE TESTING			
IMPACT TESTING			
EXTENT OF TESTING	<p>Option 13,</p> <p>Tensile testing and impact testing shall be carried out to the extent specified in the standard, except that each nominal wall thickness shall be tested instead of “the same thickness range”.</p>		
SURFACE CONDITION			
NON DESTRUCTIVE TESTING (NDT)			
SURFACE PROTECTION	All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 Sa 2½ and the surface shall remain at Sa 2½ until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns.		
CERTIFICATE	EN 10 204 Type 3.1		