

**MATERIAL DATA SHEET****MDS R15****Rev. 4**

<b>TYPE OF MATERIAL:</b> Austenitic Stainless Steel, Type 6Mo				
<b>PRODUCT</b>	<b>STANDARD</b>	<b>GRADE</b>	<b>ACCEPT. CLASS</b>	<b>SUPPL. REQ.</b>
Plates	ASTM A 240	UNS S31254 UNS N08367 UNS N08926	-	-
<b>1. SCOPE</b>	This MDS specifies the selected options in the referred standard and additional requirements which shall be added or supersede the corresponding requirements in the referred standard.			
<b>2. QUALIFICATION</b>	Manufacturers and the manufacturing process used for manufacturing of product to this MDS shall be qualified in accordance with NORSOK Standard M-650.			
<b>3. MANUFACTURING PROCESS</b>	The manufacturing of products according to this MDS shall be carried out according to the M-650 qualified manufacturing procedure.			
<b>4. STEEL MAKING</b>	The steel melt shall be refined with AOD or equivalent.			
<b>5. HEAT TREATMENT</b>	The plates shall be solution annealed followed by water quenching.			
<b>6. TENSILE TESTING</b>	RP <sub>0,2</sub> ≥ 310 MPa, RM ≥ 655 MPa, A ≥ 35 %.			
<b>7. CORROSION TESTING</b>	Corrosion test according to ASTM G 48 Method A is required. Test temperature shall be 50 °C and the exposure time 24 hours. The test shall expose the external and internal surfaces and a cross section surface in full wall thickness. Cut edges shall be prepared according to ASTM G 48. The whole specimen shall be pickled before being weighed and tested. Pickling may be performed for 5 minutes at 60 °C in a solution of 20 % HNO <sub>3</sub> + 5 % HF. The acceptance criteria are: - No pitting at 20 X magnification. - The weight loss shall be less than 4,0 g/m <sup>2</sup> .			
<b>8. EXTENT OF TESTING</b>	Tensile, hardness and corrosion testing shall be carried out for each heat, nominal thickness and heat treatment load. For heat treatment in continuous furnace a heat treatment load is defined as all plates heat treated continuously in the same furnace, of the same heat and nominal thickness.			
<b>9. TEST SAMPLING</b>	Samples for production testing shall realistically reflect the properties in the actual components.			
<b>10. SURFACE FINISH</b>	White pickled.			
<b>11. REPAIR OF DEFECTS</b>	Weld repair is not acceptable.			
<b>12. MARKING</b>	The component shall be marked to ensure full traceability to melt and heat treatment lot.			
<b>13. CERTIFICATION</b>	The material manufacturer shall have a quality system certified in accordance with ISO 9001 and the system shall have undergone a specific assessment for the relevant materials. The material certificate shall be in accordance with EN 10204 Type 3.1, and shall include the following information: - Steel manufacturer; - Steel melting and refining practice; - Heat treatment condition. (Solution annealing temperature and holding time shall be stated.)			