





Manufacturer logo	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: 2304-2012		
			Rev. No.:9		
<b>Manufacturer name/address/ Web page:</b>	Outokumpu Stainless AB, Avesta Works, P.O. Box 74, SE 77422 Avesta, Sweden www.outokumpu.com				
<b>Reference standard</b>	NORSOK M-650, Edition 4/ ISO 17782:2018				
<b>Material designation and MDS No.:</b>	ASTM A240: UNS S32304; EN 10088-2 & 10028-7: 1.4362; NORSOK M-120: MDS YD35 rev 0				
<b>Manufacturing Summary doc. No.:</b>	MS NORSOK 23-2304			Rev. No.:3	
<b>Products and manufacturing process(es):</b>	Hot and cold rolled stainless steel plate, sheet and strip.  <b>Hot rolled:</b> Melting – Casting – Hot rolling – Annealing and pickling – Finishing and testing <b>Cold rolled:</b> Melting – Casting – Hot rolling – Annealing and pickling – Cold rolling – Annealing and pickling – Finishing and testing				
<b>Mandatory conditions and sub-contractors:</b>					
<b>Other information:</b>	1 Qualification was carried out according to Outokumpu MDS D35. Test report 2012-009 ver3. 2 Temperature of quenching medium in AP-line is 50-55 C. 3 Yearly TUS according to internal procedure 6613 "Verification of HTP". 4. Microstructure evaluation performed after etching in oxalic acid and Beraha II. Corrosion testing according to ASTM A1084 at 30 C always performed.				
<b>Qualification expires:</b>	February 2028				
<b>Tested and qualified thickness and weight</b>					
<b>Products and manufacturing process(es):</b>	<b>Test record No.</b>	<b>Tested thickness mm</b>	<b>Qualified thickness mm</b>	<b>Test piece weight kg</b>	<b>Qualified weight kg</b>
Hot rolled plate and strip	UNS S32304 HR Qualification test report	10	Max 12,5	N/A	N/A
Cold rolled plate and strip	UNS S32304 CR Qualification test report	6	Max 7,5	N/A	N/A
<b>Qualification/acceptance signatures</b>					
<b>Manufacturer:</b> Outokumpu Stainless AB, Avesta Works	<b>Prepared by/Date:</b> 2024-02-07 QC Specialist Kristina Wretstam  	<b>Checked by/Date:</b> 2024-02-07 QM Manager Maria Lindvall  			
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. <i>This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.</i>					
<b>Qualified/Accepted by</b> (company name /address):   <b>Aker Solutions</b> Fornebu, Norway NO 929 877 950 VAT			<b>Signature/Date:</b>   14/03/2024		