

Business Unit / QCM

Date Datum Date

Load, Ladung, Charge No


Acknowledged ID, Bestätigung, Commande ID

**Avesta Works / Jerker Sterneland**

**21-Nov-2018**

**FI/179188**

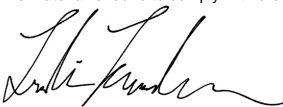
**6610/300502647**

Your ref, Ihre Ref., Votre ref <b>12273/1/3</b>		Requirements, Anforderungen, Exigences <b>ASTM A 240M-17</b> <b>ASME BPVC SEC II PART A SA-240/SA-240M Ed 2017</b> <b>EN 10088-2:2014</b> <b>EN 10028-7:2016</b> <b>NACE MR0175 / ISO 15156-3:2015</b> <b>EN 10088-4:2009</b> <b>ASTM A 480</b>											
Buyer, Besteller, Acheteur <b>HTM Yhtiöt Oy</b> <b>Tiilitehtaantie 23</b> <b>FI 12310, RYTTYLÄ</b> <b>FINLAND</b>													
Consignee, Empfänger, Lieu de livraison <b>HTM Yhtiöt Oy</b>													
Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur <b>outokumpu</b>	Process Erschmelzungsart Mode de fusion <b>E+AOD</b>	Inspector's stamp Zeichen des Sachverständigen Poicon de l'expert 	Grade, Werkstoff, Nuance <b>Outokumpu Supra 316L/4404</b> <b>TYPE 316</b> <b>TYPE 316L</b> <b>1.4401</b> <b>1.4404</b>										
Product, Erzeugnisform, Produit <b>Stainless Steel Hot Rolled, Coil-Plate</b> <b>finish 1D, cut edge</b>													
Line Reihe Ligne	Item Position Poste	Heat-Lot No Schmelze-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity / Unit Menge / Einheit Quantité / Unité								
1	2	E181722-702	10,00 X 1500 X 3000 mm	5	1807 KG								
Chemical composition – Chemische Zusammensetzung – Composition chimiques													
	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
Heat	.021	.50	1.35	.029	.001	17.05	10.05	2.01	.004	.016	.35	.30	.049
Radioactive contamination check acc. IAEA recommendations: <b>Approved</b>													
Test results – Prüfergebnisse – Results desais (1N/mm² = 1 MPa) F = Front – Anfan – Debut B = Back – Ende – Fin T = Transverse – Quer – Travers													
	Test Ref	Temp °C	RP 0.2 N/MM2	RP 1.0 N/MM2	RM N/MM2	A5 %	2" %	HB					
Min		+20	240	270	530	40	40	HB					
Max					680			217					
	F T	+20	319	367	612	56	58	187					
	B T		305	350	593	59	61	174					
<b>Material conforms to NACE MR0175 / ISO 15156-3 in supplied condition</b>													
<b>Corrosion acc. ASTM A 262-E, EN ISO 3651-2A: Approved</b>													
<b>Heat treatment / Solution annealed: Material temp minimum 1040 °C / Quenched (forced air + water)</b>													
<b>Steel grade verification (PMI-spectroscopic): Approved</b>													
<b>Marking, visual insp. and gauge measurement: Approved</b>													
<b>Certified acc. Pressure Equipment Directive (2014/68/EU) by TÜV CERT-Certification body</b>													
<b>for pressure equipment of the TÜV NORD Systems; notified body, reg-no. 0045.</b>													

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This material is found to comply with order requirements



**Joakim Johansson**  
Authorized Inspector

