



Business Unit / QCM Avesta Works / Johan Nordström Date Datum Date 16-May-2017 Load, Ladung, Charge No FI/151885 Acknowledged ID, Bestätigung, Commande ID 6610/300430024

Your ref, Ihre Ref., Votre ref <b>10224.</b>	Requirements, Anforderungen, Exigences <b>ASTM A 240M-16a</b> <b>ASME BPVC SEC II PART A SA-240/SA-240M 2015</b> <b>EN 10088-2:2014</b> <b>EN 10028-7:2016</b> <b>AD 2000 W2, W10 &amp; EN 10028-7</b> <b>EN ISO 9444-2 / ASTM A480M</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 Core 304L/4307</b> <b>TYPE 304</b> <b>TYPE 304L</b> <b>1.4301</b> <b>1.4307</b>
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Product, Erzeugnisform, Produit  
**Stainless Steel Hot Rolled, Coil-Plate**  
**finish 1D, cut edge**

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	571499-003	10,00 X 1500 X 3000 mm	11	3938 KG

Chemical composition – Chemische Zusammensetzung – Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
Heat	.020	.33	1.43	.031	.001	18.18	8.08	.40	.004	.007	.33	.160	.065

Radioactive contamination check acc. IAEA recommendations: **Approved**

Test results – Prüfergebnisse – Results dessais (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	230	260	520	45	40	HB
Max				700			201
F T	+20	328	375	629	57	59	192
B T		324	378	633	59	61	196

**Corrosion acc. ASTM A 262-E, EN ISO 3651-2A: Approved**  
**Heat treatment / Solution annealed: Material temp minimum 1040 °C / Quenched (forced air + water)**  
**Steel grade verification (PMI-spectroscopic): Approved**  
**Marking, visual insp. and gauge measurement: Approved**  
**Certified acc. Pressure Equipment Directive (2014/68/EU) by TÜV CERT-Certification body**  
**for pressure equipment of the TÜV NORD Systems; notified body, reg-no. 0045.**

**Joakim Johansson**  
Authorized Inspector

