

Business Unit / QCM

Avesta Works / Johan Nordström

Date Datum Date

16-May-2017



Load, Ladung, Charge No

FI/151885

Acknowledged ID, Bestätigung, Commande ID

6610/300430029

Your ref, Ihre Ref., Votre ref 10225.		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 HTM Yhtiöt Oy Tiilitehtaantie 23 FI 12310, RYTTYLÄ FINLAND			
Consignee, Empfänger, Lieu de livraison HTM Yhtiöt Oy			

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>
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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	3	571294-001	10,00 X 1500 X 3000 mm	14	5047 KG

Chemical composition – Chemische Zusammensetzung – Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
Heat	.019	.48	1.57	.031	.001	16.97	10.08	2.02	.007	.023	.39	.21	.044

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

Test results – Prüfergebnisse – Results dessais (1N/mm<sup>2</sup> = 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	344	392	620	54	56	183
B T		331	380	616	55	57	178

**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.**