



Business Unit / QCM
Avesta Works / Johan Nordström

Date Datum Date
22-Mar-2018

Load, Ladung, Charge No
FI/167949

Acknowledged ID, Bestätigung, Commande ID
6610/300467066

Your ref, Ihre Ref., Votre ref 11263.		Requirements, Anforderungen, Exigences ASTM A 240M-17 ASME BPVC SEC II PART A SA-240/SA-240M Ed 2017 EN 10088-2:2014 EN 10028-7:2016 AD 2000 W2, W10 & EN 10028-7 NACE MR0175 / ISO 15156-3:2015 EN ISO 9444-2 / ASTM A480M	
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 outokumpu	Process Erschmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Poicon de l'expert 	Grade, Werkstoff, Nuance Outokumpu Core 304L/4307 TYPE 304 TYPE 304L 1.4301 1.4307
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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	E180399-701	12,00 X 1500 X 3000 mm	12	5168 KG

Chemical composition – Chemische Zusammensetzung – Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
Heat	.020	.29	1.25	.033	.001	18.36	8.10	.36	.003	.022	.54	.184	.060

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

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			RM		A5		2"		HB	
		0.2	1.0	1.0	N/MM2	N/MM2	%	%	HB	HB		
Min	+20	230	260	260	520	45	40					
Max					700		201					
F T	+20	328	376	376	620	57	60	192				
B T		332	380	380	618	57	60	192				

Material conforms to NACE MR0175 / ISO 15156-3 in supplied condition
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.