



Business Unit / QCM
Avesta Works / Johan Nordström

Date Datum Date
14-May-2018

Load, Ladung, Charge No
FI/170293

Acknowledged ID, Bestätigung, Commande ID
6610/300472881

Your ref, Ihre Ref., Votre ref 11415.		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 Supra 316L/4404 TYPE 316 TYPE 316L 1.4401 1.4404
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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	E180320-704	10,00 X 1500 X 3000 mm	11	3988 KG

Chemical composition – Chemische Zusammensetzung – Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
Heat	.018	.49	1.34	.035	.001	16.91	10.05	2.04	.003	.017	.53	.24	.045

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	240	270	270	530	40	40					
Max					680					217		
	+20				602	56	58			178		
		F T			318	366	602	56	58	178		
		B T			309	354	584	59	61	174		

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.