



Business Unit / QCM  
Avesta Works / Johan Nordström

Date Datum Date  
18-Jan-2018

Load, Ladung, Charge No  
FI/164199

Acknowledged ID, Bestätigung, Commande ID  
6610/300461295

Your ref, Ihre Ref., Votre ref 11102		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										
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	E171814-775	12,00 X 1500 X 3000 mm	4	1725 KG								
Chemical composition - Chemische Zusammensetzung - Composition chimiques													
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
	.017	.49	1.42	.030	.001	17.13	10.11	2.06	.003	.041	.45	.25	.052
Radioactive contamination check acc. IAEA recommendations: Approved													
Test results - Prüfergebnisse - Results desais (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	346	394	619	54	57	196					
	B T		353	399	625	53	56	201					
Material conforms to NACE MR0175/ISO 15156 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.													