



Business Unit / QCM  
Avesta Works / Johan Nordström

Date Datum Date  
31-Mar-2017

Load, Ladung, Charge No  
FI/149518

Acknowledged ID, Bestätigung, Commande ID  
6610/300427459

Your ref, Ihre Ref., Votre ref 10157	Requirements, Anforderungen, Exigences ASTM A 240M-16a ASME BPVC SEC II PART A SA-240/SA-240M 2015 EN 10088-2:2014 EN 10028-7:2016 EN 10088-4:2009 ASTM A 480
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	2	570959-001	12,00 X 1500 X 3000 mm	14	6059 KG

Chemical composition - Chemische Zusammensetzung - Composition chimiques														
	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N	
Heat	.019	.48	1.28	.030	.001	16.94	10.07	2.04	.005	.022	.37	.25	.047	

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	374	417	620	54	57	192
B T		340	386	617	54	57	192

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.

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This material is found to comply with order requirements

Joakim Johansson  
Authorized Inspector

