

Business Unit / QCM

Avesta Works / Johan Nordström

Date Datum Date



05-Oct-2017

Load, Ladung, Charge No

FI/158562

Acknowledged ID, Bestätigung, Commande ID

6610/300446678

Your ref, Ihre Ref., Votre ref 004867-1		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 AD 2000 W2, W10 & EN 10028-7 EN ISO 9444-2 / ASTM A480M	
Buyer, Besteller, Acheteur Ovako Metals Oy Ab ATOMITIE 5 A FI 00370, HELSINKI FINLAND			
Consignee, Empfänger, Lieu de livraison Ovako Metals Oy Ab			
Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur 	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	2	E171430-701	10,00 X 1500 X 3000 mm	14	5115 KG

Chemical composition – Chemische Zusammensetzung – Composition chimiques														
	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N	
Heat	.015	.47	1.37	.028	.002	16.98	10.06	2.03	.005	.021	.39	.20	.046	

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

Test results – Prüfergebnisse – Results desais (1N/mm ² = 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	316	362	600	57	60	178		
B T		319	364	605	56	58	170		

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.

