



Business Unit / QCM

Avesta Works / Johan Nordström

Date Datum Date

04-May-2018

Load, Ladung, Charge No

FI/169919

Acknowledged ID, Bestätigung, Commande ID

6610/300471766

Your ref, Ihre Ref., Votre ref 007352-1		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 NACE MR0175 / ISO 15156-3:2015 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	Inspector's stamp Zeichen des Sachverständigen Poicon de l'expert	Grade, Werkstoff, Nuance Outokumpu Forta DX 2205 UNS S31803 UNS S32205 1.4462
outokumpu	E+AOD		

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	1	580713-004	8,00 X 1500 X 3000 mm	7	1961 KG

Chemical composition – Chemische Zusammensetzung – Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	Co	N
Heat	.023	.35	1.33	.027	.001	22.28	5.71	3.18	.006	.25	.180	.167

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 0.2 N/MM2	RP 1.0 N/MM2	RM N/MM2	A5 %	2" %	HB	SING-1 J/CM2	SING-2 J/CM2	SING-3 J/CM2	MEAN J/CM2	FEH %
Min	+20	480		700	25	25		100	100	100	100	
Max				950			293					
F T	+20	630	706	821	34	35	248	203	220	233	219	49.0
B T		668	744	854	32	32	261	205	235	235	225	

Corrosion acc. EN ISO 3651-2C: Approved
PREN: Cr + 3,3Mo + 16N = 35.4
Material conforms to NACE MR0175 / ISO 15156-3 in supplied condition
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.