


Business Unit / QCM
Avesta Works / Johan Nordström

Date Datum Date
23-Sep-2016

Load, Ladung, Charge No
FI/FI6O-4118

Acknowledged ID, Bestätigung, Commande ID
6610/630993

Your ref, Ihre Ref., Votre ref P046273		Requirements, Anforderungen, Exigences ASTM A 240M-16 ASME SEC II PART A SA-240/SA-240M 2015 EN 10088-2:2014 EN 10028-7:2016 AD 2000 W2, W10 & EN 10028-7 NACE MR0175/ISO 15156-3:2015 EN 10088-4:2009 EN ISO 9444-2 / ASTM A480M	
Buyer, Besteller, Acheteur BE GROUP OY AB HELSINGINTIE 50 PO BOX 54 FI FI-15100, LAHTI FINLAND			
Consignee, Empfänger, Lieu de livraison BE GROUP OY AB			

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	5	562691-003	12,00 X 1500 X 3000 mm	5	2157 KG

Chemical composition – Chemische Zusammensetzung – Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
Heat	.020	.46	1.25	.032	.001	16.91	10.05	2.03	.005	.015	.39	.22	.046

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	RP	1.0	RM	A5	2"	HB
		N/MM2	N/MM2	N/MM2	%	%	HB		
Min	+20	240		270		530	40	40	
Max						680			217
F T	+20	329		375		603	58	60	187
B T		331		375		603	57	60	183

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
Approved acc. AD 2000 Merkblatt W0 by TÜV NORD Systems with renounce of countersignment
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.