



Business Unit / QCM

Avesta Works / Johan Nordström

Date Datum Date
18-Aug-2014

Load, Ladung, Charge No
FI/108557

Acknowledged ID, Bestätigung, Commande ID
6610/300307836

Your ref, Ihre Ref., Votre ref P024276		Requirements, Anforderungen, Exigences ASTM A 240M-13c ASME SEC II PART A SA-240/SA-240M 2013 EN 10088-2:2005 EN 10028-7:2007 AD 2000 W2, W10 & EN 10028-7 NACE MR0175/ISO 15156-3:2009 EN ISO 9444-2 / ASTM A480M										
Buyer, Besteller, Acheteur BE Group Oy Ab Helsingintie 50 FI 15100, LAHTI FINLAND												
Consignee, Empfänger, Lieu de livraison BE Group Oy Ab												
Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur 	Process Erschmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Polçon de l'expert 	Grade, Werkstoff, Nuance Outokumpu 17-10-2L 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	E140752-704	10,00 X 1500 X 3000 mm	5	1789 KG							
Chemical composition -- Chemische Zusammensetzung -- Composition chimiques												
	C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	Co	N
Heat	.020	.48	1.43	.031	.002	17.23	10.11	2.05	.016	.35	.16	.045
Radioactive contamination check acc. IAEA recommendations: Approved												
Test results -- Prüfergebnisse -- Résultats des essais (1N/mm² = 1 MPa) F = Front -- Anfan -- Debut B = Back -- Ende -- Fin T = Transverse -- Quer -- Travers												
	Test Ref	Temp	RP 0.2	RP 1.0	RM	A5	2"	HB				
		°C	N/MM2	N/MM2	N/MM2	%	%	HB				
Min		+20	240	270	530	40	40					
Max					680			217				
	F T	+20	311	359	603	54	56	178				
	B T		322	368	605	54	56	187				
<p>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 temperature 1100 °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 (97/23/EC) by TÜV CERT-Certification body for pressure equipment of the TÜV NORD Systems; notified body, reg-no. 0045.</p>												

Outokumpu Stainless AB Telephone: + 46 (0)226 811 73
 Business Unit Special Coil Fax: + 46 (0)226 816 48
 BOX 74, S-774 22 AVESTA V.A.T no: SE556001874801
 SWEDEN
 Regoffice: Stockholm SWEDEN, Regno: 556001-8748

This material is found to comply with order requirements

Joakim Johansson
 Authorized Inspector





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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 Poison de l'expert 	Grade, Werkstoff, Nuance Outokumpu 17-10-2L TYPE 316 TYPE 316L 1.4401 1.4404
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Product, Erzeugnisform, Produkt
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	E140752-704	10,00 X 1500 X 3000 mm	5	1787 KG

Chemical composition - Chemische Zusammensetzung - Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	Co	N
Heat	.020	.48	1.43	.031	.002	17.23	10.11	2.05	.016	.35	.16	.045

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

Test results - Prüfergebnisse - Résultats des essais (1N/mm² = 1 MPa) F = Front - Anfan - Début 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" %	IIB HB
Min	+20	240	270	530	40	40	
Max				680			217
F T	+20	311	359	603	54	56	178
B T		322	368	605	54	56	187

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 temperature 1100 °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 (97/23/EC) by TÜV CERT-Certification body
for pressure equipment of the TÜV NORD Systems; notified body, reg-no. 0045.

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1	3	E140752-704	10,00 X 1500 X 3000 mm	4	1.433 KG								
Chemical composition - Chemische Zusammensetzung - Composition chimiques													
		C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	Co	N
Heat		.020	.48	1.43	.031	.002	17.23	10.11	2.05	.016	.35	.16	.045
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		°C	N/MM2	N/MM2	N/MM2	%	%	HB					
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EN ISO 9001
EN ISO 14001