

Business Unit / OCM  
 Avesta Works / Johan Nordström

Date Datum Date  
 27-Jun-2014

Load Lading, Charge No  
 FI/107623

Acknowledged ID, Bestätigung, Commande ID  
 6610/300299255

Your ref., Ihre Ref., Votre ref  
 45954663-0710

Buyer, Besteller, Acheteur  
**TIBNOR OY**  
**ATOMITIE 5 A**  
**FI 00370, HELSINKI**  
**FINLAND**

Requirements, Anforderungen, Exigences  
**ASTM A 240M-13c**  
**ASME SEC II PART A SA-240/SA-240M 2013**  
**EN 10088-2:2005**  
**AD 2000 W2, W10 & EN 10028-7**  
**NACE MR0175/ISO 15156-3:2009**  
**EN ISO 9444-2 / ASTM A480M**

Consigne, Empfänger, Lieu de livraison  
**TIBNOR OY**


Mark of Manufacturer  
 Zeichen des Lieferwerkes  
 Signe de producteur



Process  
 Erschmelzungsart  
 Mode de fusion

**E+AOD**

Inspector's stamp  
 Zeichen des Sachverständigen  
 Policon de l'expert



Grade, Werkstoff, Nuance  
**Outokumpu 18-8L**  
**TYPE 304**  
**TYPE 304L**  
**1.4301**  
**1.4307**

Product, Erzeugnisform, Produit  
**Stainless Steel Hot Rolled, Coil-Plate**  
**finish 1D, cut edge**

Line Reihe Ligne	Item Position Poste	Heat/Lot No Schmelz-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity / Unit Menge / Einheit Quantité / Unité
1	4	E141122-775	10,00 X 1500 X 3000 mm	15	5329 KG

Chemical composition - Chemische Zusammensetzung - Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Nb	Cu	Co	N
Heat	.019	.29	1.66	.030	.001	18.22	8.06	.021	.36	.118	.071

Radioactive contamination check acc. IAEA recommendations: Approved

Test results - Prüfergebnisse - Résultats des essais (N/mm² = 1 MPa) F = Front - Arrière - Arian - 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	%				
Min	+20	230	45	520	45	40			HB
Max				700					201
F	T	+20	319	368	622	57	59		178
B	T		323	372	626	57	59		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 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.

Outokumpu Stainless AB

Telephone: +46 (0)228 811 73

This material is found to comply with order requirements

Business Unit Special Coil

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Signature

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V.A.T no: SE556001874801

Authorized Inspector

SWEDEN

Regoffice: Stockholm SWEDEN, Regno: 556001-8748

