

Business Unit / QCM

Avesta Works / Johan Nordström

Your ref, Ihre Ref., Votre ref  
11189.

Buyer, Besteller, Acheteur  
HTM Yhtiöt Oy  
Tiilitehtaantie 23  
FI 12310, RYTTYLÄ  
FINLAND

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  
AD 2000 W2, W10 & EN 10028-7  
NACE MR0175 / ISO 15156-3:2015  
EN ISO 9444-2 / ASTM A480M

Consignee, Empfänger, Lieu de livraison  
HTM Yhtiöt Oy

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 Core 304L/4307  
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 Schmelze-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity / Unit Menge / Einheit Quantité / Unité
1	1	E180064-776	10,00 X 1500 X 3000 mm	15	5383 KG

Chemical composition - Chemische Zusammensetzung - Composition chimiques

Heat	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
	.019	.34	1.18	.032	.001	18.15	8.12	.39	.004	.035	.49	.151	.061

Radioactive contamination check acc. IAEA recommendations: Approved

Test results - Prüfergebnisse - Results des essais (1N/mm<sup>2</sup> = 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	230	260	520	45	40	HB
Max				700			201
F T	+20	316	366	619	57	59	187
B T		312	360	616	59	61	183

Material conforms to NACE MR0175 / ISO 15156-3 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  
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.