



DEGERFORS STAINLESS
S-693 81 DEGERFORS, SWEDEN
Ref.QC-Dept. Jörgen Johansson

No. LP 824-15
Date-Datum-Date Your order-ihre Bestellung-Votre commande
2016-05-11 OU0734

Product-Erzeugnisform-Produit Stainless steel, hotrolled, peeled bar. Process annealed according to ASTM A 484 and EN 10088-3, 10272 = Blooms heated in pit furnace at >1050°C/ >1.5 h, rolled to intended dimension at ≥ 1010°C and rapid air cooling. Peeled to dimension tolerance ISO-286-2 k13.	Our order Unsere Auftrag Notre commande 47712	Advice of delivery Lieferschein Avie d'expédition	
Requirements-Prüfgrundlagen-Exigences Amodil Supplies spec. QAD 49 Rev.1 Latest revision of following standards: EN 10088-3, EN 10272. ASTM A 182 (analysis), 276, 479. Applicable parts of NACE MR 0175. ISO 286-2 k16.	Purchaser-Besteller-Acheteur AMODIL SUPPLIES LTD FOREST PARK, CLEOBURY MORTIMER NR KIDDERMINISTER, WORCS DY14 9BD GREAT BRITAIN		
Marking-Kennzeichnung-Marquage Type of steel Werkstoff Nr. Nuance Grade 316L/1.4404 316/1.4401, F 316, F 316L 17-11-2L Predec (Improved machineability)	Brand mark Herstellerzeichen Signe du producteur 	Inspectors' stamp Abnahmestempel Poinçon de l'expert 	Melting process Erschmelzungsart Procède de fusion EAF+AOD-Converter refining CC to bloom 400 x 300

Item	Quantity	Dimensions, mm	Cast No.	Lot No.	Test No	Weight Kg	
Pos.	Anzahl	Abmessungen, mm	Schmelze Nr.	Los Nr.	Probe Nr	Gewicht Kg	Reduction ratio
Pos.	Nombre	Dimensions, mm	Coulée n.	Lot n.	Eprouvette no	Poid Kg	
02-01	50	Round 114.3	E150397	96687	9558-1,2	22 386	10.61

Chemical composition-Chemische Zusammensetzung-Composition Chimique (weight %)										
Cast No. Schmelze Nr. Coulee no										
E150397	C	Si	Mn	P	S	Cr	Ni	Mo	N	
	0.021	0.43	1.65	0.038	0.025	16.97	10.11	2.06	0.078	

Mechanical tests - Mechanische Prüfungen - Essais mécaniques											
Test results-Prüfergebnisse-Résultats d'essais(L=longitudinal/längs/long, T=transversal/quer/travers)											
Test No./L/T	Rp 0.2	Rp 1.0	Rm	A5	Z	HB	Impact test-Kerbschlagbiegeversuch- Résilience			Temp	
Probe Nr./L/T	MPa	MPa	MPa	%	%	max	J			°C	
Eprouvette n./L/T	min	min		min	min		min				
Requirements	205	235	515-700	40	50	215	100			20	
Soilwerte	Requirements according to EN 10088-3, 10272, 1.4401,1.4404 and ASTM A 276, 479, grade 316,316L										
Exigences											
9558-1	L	275	325	605	53	74	163	309	314	292	305
9558-2	L	276	327	605	53	74	158	290	307	326	308

Other tests-Sonstige Prüfungen-Autres essais US-tested according to ASTM A 388, 3mm FBH (DS OFP-228). Corrosion test according to ISO 3651-2 Method A approved. Corrosion test according to ASTM A 262 Practice E approved. Grain size according to ASTM E112 : 9558-1 = 6.0 9558-2 = 6.5	Inspection and gauge measurement-Ausmessung und Besichtigung-Contrôle visuel et dimensionel PMI-test has been performed on every bar/billet with X-ray spectro, without remarks. No weld repair performed. No remarks-Ohne Beanstandung-Pas de remarques
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The order requirements stipulated are satisfied
Free from Mercury contamination at time of shipment.
Radioactivity < 0.1 Bq/g (equivalent to Co⁶⁰). Measured on samples of the material using analysis techniques in accordance with guidelines issued by the IAEA.

The material is manufactured according to a Quality System, registered to ISO 9001:2008 and approved by TÜV Nord.
Certificate Registration Number: 44 100 116412.
Approved acc. to AD2000-Merkblatt W0 by TÜV Nord Systems
"Certified acc. to Pressure Equipment Directive (97/23/EC) by TÜV CERT-Certification body for pressure equipment of the TÜV NORD; notified body, reg.-no. 0045."
Reg.No.:556001-8748
V.A.T.No.:SE5560011874801
Registered office:Stockholm, Sweden

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL


JÖRGEN JOHANSSON
Section Manager Quality Control