


DEGERFORS LONG PRODUCTS S-693 81 DEGERFORS, SWEDEN Ref.QC-Dept. Jörgen Johansson		Date-Datum-Date 2016-07-11	No. LP 1095-16 Your order-Ihre Bestellung-Votre commande OU0776								
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 48410		Advice of delivery Lieferschein Avis d'expédition							
Requirements-Prüfgrundlagen-Exigences Amodil Supplies spec. QAD49 Rev.1 Latest revision of following standards: EN 10088-3, EN 10272. ASTM A 182 (analysis), 276, 479. Applicable parts of NACE MR 0103. Applicable parts of NACE MR 0175/ ISO 15156-3: 2003 ISO 286-2 k16.		Purchaser-Besteller-Acheteur AMODIL SUPPLIES LTD FOREST PARK, CLEOBURY MORTIMER NR KIDDERMINSTER, 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 Prodec (Improved machineability)		Brand mark Herstellereichen 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							
Extent of delivery-Lieferumfang-Etendue de livraison											
Item Pos.	Quantity Anzahl	Dimensions, mm Abmessungen, mm	Cast No. Schmelze Nr.	Lot No. Los Nr.	Test No. Probe Nr	Weight Kg Gewicht Kg	Reduction ratio				
03-01	18	Round 152.4	E160829	101725	10289-1,2	17 900	5.97				
03-02	4	Round 152.4	E160829	102370	10289-1,2	3 638	5.97				
Chemical composition-Chemische Zusammensetzung-Composition Chimique (weight %)											
Cast No. Schmelze Nr. Coulee no											
E160829	C	Si	Mn	P	S	Cr	Ni	Mo	N		
	0.018	0.49	1.62	0.032	0.022	16.88	10.05	2.03	0.079		
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											
Eprouvette n./L/T	MPa	MPa	MPa	%	%	max	J	°C			
	min	min		min	min		min				
Requirements	205	235	515-700	40	50	215	100	20			
Sollwerte	Requirements according to EN 10088-3, 10272, 1.4401,1.4404 and ASTM A 276, 479, grade 316,316L.										
Exigences							1	2	3	Average	
10289-1	L	266	315	590	55	75	152	301	289	332	307
10289-2	L	254	287	580	56	75	157	260	249	273	261
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 : 10289-1 = 5.5 10289-2 = 5.5					Inspection and gauge measurement-Ausmessung und Besichtigung-Contrôle visuel et dimensionnel 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 remarque						
The order requirements stipulated are satisfied					Free from Mercury contamination at time of shipment. Radioactivity < 0.1 Bq/g (equivalent to Co ⁶⁰). 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 115412. 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					Outokumpu Stainless AB Degerfors Long Products  SARA RANDSTRÖM Quality Manager						