




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

No. LP 1834-17  
Date-Datum-Date Your order-Ihre Bestellung-Votre commande  
2017-08-24 OU0807

<b>Product-Erzeugnisform-Produit</b> 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.		<b>Our order</b> Unsere Auftrag Notre commande		<b>Advice of delivery</b> Lieferschein Avie d'expédition							
<b>Requirements-Prüfgrundlagen-Exigences</b> Amodil Supplies spec. QAD49 Rev.1 Latest revision of following standards: EN 10088-3, EN 10272. ASTM A 182 (analysis), 276, 479. ASME SA-182 (analysis), 276. ASME SA-479/SA-479M-2011a. Applicable parts of NACE MR 0103. Applicable parts of NACE MR 0175/ ISO 15156-3: 2003 ISO 286-2 k16.		<b>Purchaser-Besteller-Acheteur</b> AMODIL SUPPLIES LTD FOREST PARK, CLEOBURY MORTIMER NR KIDDERMINSTER, WORCS DY14 9BD  GREAT BRITAIN									
<b>Marking-Kennzeichnung-Marquage</b>											
<b>Type of steel</b> Werkstoff Nr. Nuance Grade 316L/1.4404 316/1.4401, F 316, F 316L 17-11-2L Prodec (Improved machineability)		<b>Brand mark</b> Herstellerzeichen Signe du producteur  	<b>Inspectors' stamp</b> Abnahmestempel Poinçon de l'expert  	<b>Melting process</b> Erschmelzungsart Procède de fusion  EAF+AOD-Converter refining CC to bloom 400 x 300							
<b>Extent of delivery-Lieferumfang-Etendue de livraison</b>											
Item	Quantity	Dimensions, mm	Cast No.	Lot No.	Test No	Weight Kg					
Pos.	Anzahl	Abmessungen, mm	Schmelze Nr.	Los Nr.	Probe Nr	Gewicht Kg					
Pos.	Nombre	Dimensions, mm	Coulée n.	Lot n.	Eprouvette no	Poid Kg	Reduction ratio				
02-01	45	Round 114.3	E170691	106465	10784-1,2	22 924	10.61				
<b>Chemical composition-Chemische Zusammensetzung-Composition Chimique (weight %)</b>											
Cast No.	C	Si	Mn	P	S	Cr	Ni	Mo	N		
E170691	0.019	0.44	1.60	0.029	0.026	16.96	10.09	2.08	0.081		
<b>Mechanical tests - Mechanische Prüfungen - Essais mécaniques</b> 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									J	°C	
Eprouvette n./L/T	MPa	MPa	MPa	%	%	max			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											
10784-1	L	279	326	605	52	75	157	292	326	288	302
10784-2	L	269	317	597	53	75	156	259	290	271	273
<b>Other tests-Sonstige Prüfungen-Autres essais</b> US-tested according to ASTM A 388, 3mm FBH. Approved. 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 : 10784-1 = 6.5 10784-2 = 7.0						<b>Inspection and gauge measurement-Ausmessung und Besichtigung-Contrôle visuel et dimensionel</b> 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 <sup>60</sup> ). 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   JÖRGEN JOHANSSON Section Manager Quality Control					

F13837

1 1/2" BSP P FXD F/M X 1/2" NPT MALE ADAPTOR 10K 316L