

F9730

1 1/2" BSP P Hex Full Socket 10K 316L



## INSPECTION CERTIFICATE

EN 10204 / 3.1

DEGERFORS STAINLESS S-693 81 DEGERFORS, SWEDEN Ref.QC-Dept. Jörgen Johansson		Date-Datum-Date 2014-08-22		No. LP 1346-14 Your order-Ihre Bestellung-Votre commande OU0709			
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 >1050°C and rapid air cooling. Peeled to dimension tolerance ISO-286-2 k13.		Our order Unsere Auftrag Notre commande		Advice of delivery Lieferschein Avis 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 KIDDERMINSTER, WORCS DY14 9BD GREAT BRITAIN					
Marking-Kennzeichnung-Marquage		Brand mark Herstellerzeichen Signe du producteur		Inspectors' stamp Abnahmestempel Poinçon de l'expert			
Type of steel Werkstoff Nr. Nuance Grade 316L/1.4404 316/1.4401, F 316, F 316L 17-11-2L Prodec (Improved machineability)							
Extent of delivery-Lieferumfang-Etendue de livraison		Melting process Erschmelzungsart Procède de fusion EAF+AOD-Converter refining CC to bloom 400 x 300					
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
01-01	30	Round 101.8	E140999	93440	9090-1,2	10 944	12.63
Chemical composition-Chemische Zusammensetzung-Composition Chimique (weight %)							
Cast No Schmelze Nr. Coulée no							
E140999	C	Si	Mn	P	S	Cr	Ni Mo N
	0.021	0.29	1.59	0.031	0.026	17.19	10.05 2.00 0.088
Mechanical tests - Mechanische Prüfungen - Essais mécaniques							
Test results-Prüfergebnisse-Résultats d'essais (L=longitudinal/längs/long, T=transversal/quer/travers)							
Test No /LT	Rp 0.2	Rp 1.0	Rm	A5	Z	HB	Impact test-Kerbschlagbiegeversuch- Résilience
Probe Nr./LT	MPa	MPa	MPa	%	%	max	J °C
Eprouvette n./LT	min	min	min	min	min	max	min °C
Requirements Sollwerte	205	235	515-700	40	50	215	100 20
Exigences	Requirements according to EN 10088-3, 10272, 1.4401, 1.4404 and ASTM A 276, 479, grade 316, 316L.						
9090-1	L	277	325	606	53	76	158 255 270 265 263
9090-2	L	279	326	606	53	73	158 257 246 253 252
Other tests-Sonstige Prüfungen-Autres essais		Inspection and gauge measurement-Ausmessung und Besichtigung-Contrôle visuel et dimensionel					
US-tested according to ASTM A 388, 3mm FBH (DS OFP-228).		PMI-test has been performed on every bar/billet with X-ray spectro, without remarks.					
Corrosion test according to ISO 3651-2 Method A approved.		No weld repair performed.					
Grain size according to ASTM E112 : 9090-1 = 5.0		No remarks-Ohne Beanstandung-Pas de remarque					
9090-2 = 5.5							
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.		Outokumpu Stainless AB Degerfors Stainless					
Approved acc. to AD2000-Merkblatt W0 by TÜV Nord Systems		 <b>JÖRGEN JOHANSSON</b> Section Manager Quality Control					
"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