
 Böllinghaus Portugal Aços Especiais, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458	Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1 Unsere Innere Verweisung /Our Int. Ref/ Ni ref int 5600015567 000020		No.: / Nr.: /Nr.: 0000080447 Datum / Data / Data 26.03.2012																													
	Normen / Standards / Normas 1.4401/1.4404 acc. to BS EN 10088-3:2005 "Improved Machinability" I.C.C. Tested to ASTM A262-10 Practice E, valid in dual certified as AISI 316/316L acc. to ASTM 276-10, ASTM A479/A479M-10a.																															
Kunde / Customer / Cliente Hi-Tech Special Steels Limited Rotherham Road S25 3RF Sheffield		Endgültiger Kunde / Final Customer / Cliente Final Hi-Tech Special Steels Limited Rotherham Road S25 3RF Sheffield																														
Bestell Nr./Order Nr./ Enc.Nr. 003920		Bestell Nr./ Order Nr./ Enc.Nr. 003920.08																														
Prüfgegenstand / Product / Produto AISI 316L FLAT 53 x 27 mm		Gewicht / Weight / Peso 3,480 kg		Bunde / Bundle / Atados 03																												
Werkstoff-Nr. Material-no. Qualidade 1.4404		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNiMo 17-12-2																														
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, annealed, pickled, straightened				FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL																												
Schmelzen Nr. Cast nr. / Fusão nr. 560233 EAF		Chemische Analyse in % / Chemical composition in % / Análise química em % <table border="1" style="width:100%; text-align:center;"> <tr> <td>C:</td><td>0.019</td><td>Si:</td><td>0.532</td><td>Mn:</td><td>1.670</td><td>P:</td><td>0.028</td><td>S:</td><td>0.025</td><td>Cr:</td><td>17.040</td><td>Ni:</td><td>10.080</td> </tr> <tr> <td>Mo:</td><td>2.040</td><td>Co:</td><td>0.148</td><td>Cu:</td><td>0.499</td><td>N:</td><td>0.051</td><td>Ti:</td><td>0.002</td><td>W:</td><td>-</td><td>V:</td><td>-</td> </tr> </table>			C:	0.019	Si:	0.532	Mn:	1.670	P:	0.028	S:	0.025	Cr:	17.040	Ni:	10.080	Mo:	2.040	Co:	0.148	Cu:	0.499	N:	0.051	Ti:	0.002	W:	-	V:	-
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Proben Nr. Test no. Amostra no.	DIN EN 10045 Kerbschlagarbeit Impact Test Resistência (Charpy V) [J]		DIN EN 10002 Streckgrenze Yield point Tensão limite Rp 0.2 % [MPa]		Dehngrenze 1% point Limite de Rp 1.0% [MPa]		Zugfestigkeit Tensile strength Tensão de rotura Rm [MPa]		Dehnung Elongation Alongamento A (A50-50mm) [%]		Einschnürung Reduction of area Coef. Estricção Z (A50-50mm) [%]																					
	3027140.01.01		230		268		324		636		65.3																					
	3027140.01.02		225		307		235		644		64.2																					
Visuelle Kontrolle Visual inspection Inspeção visual <input checked="" type="checkbox"/> OK		DIN EN 6506-1 Härte Hardness Dureza 145 [HB]		DIN 3651 - 2A Korrosionsbeständigkeit IC Test <input checked="" type="checkbox"/> OK Corrosão intercrystalina		Wärmebehandlung Heat treatment Tratamento térmico Solution annealing 1050 °C (Water quenched)		Werkstoffverständiger Quality Control Representative Inspeção de Qualidade  David Reis																								
EN 10059 Maßkontrolle Dimensional inspection Inspeção dimensional <input checked="" type="checkbox"/> OK		Korngröße Grain size Tamanho de grão -																														
Verwechslungsprüfung Test of identity Teste de identificação <input checked="" type="checkbox"/> OK		Mikroskopische Untersuchung Macrographic test <input checked="" type="checkbox"/> OK Material free from segregation defects.																														
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination. Certified acc. PED 97/23/EC-EN 784-5 and AD 2000 WD Notified Body 0035 - TÜV Rheinland Industrie Service GmbH 01 202 929 02 0040						Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.																										

F11064 - 1/4" NPT F/F/F/F FXD CROSS 10K 316L

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