
	Abnahmeprüfzeugnis/MIH Test Certificate/Certif. de Qualidade										No.: / Nr.: / Nr.:				
	EN 10204:2004 / 3.1										0000080288				
Böllinghaus Portugal Aços Especiais, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458				Unsere innere Verweisung / Our Int. Ref/ N/ ref int						Datum / Date / Data					
				5600015513 000020						19.03.2012					
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						Endegültiger Kunde / Final Customer / Cliente Final									
Hi-Tech Special Steels Limited Rotherham Road S25 3RF Sheffield						Hi-Tech Special Steels Limited Rotherham Road S25 3RF Sheffield									
Bestell Nr./Order Nr./ Enc.Nr. 003920						Bestell Nr./ Order Nr./ Enc.Nr. 003920.07									
Prüfgegenstand / Product / Produto				Gewicht / Weight / Peso				Bunde / Bundles / Atados							
AISI 316L FLAT 47 x 27 mm				3,712 kg				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										FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL					
Stainless steel flat bars, hot rolled, annealed, pickled, straightened.															
Schmelzen Nr. Cast nr. / Fusão nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %													
560233		C:	0.019	Si:	0.532	Mn:	1.670	P:	0.028	S:	0.025	Cr:	17.040	Ni:	10.080
EAF		Mo:	2.040	Co:	0.146	Cu:	0.499	N:	0.051	Ti:	0.002	W:	-	V:	-
Proben Nr. Test no. Amostra no.		DIN EN 10045				DIN EN 10002									
		Kerbschlagarbeit Impact Test Resistência (Charpy V)		Streckgrenze Yield point Tensão limite Rp 0.2 %		Dehngrenze 1% point Limite de Rp 1.0%		Zugfestigkeit Tensile strength Tensão de rotura Rm		Dehnung Elongation Alongamento A (A50-50mm)		Einschnürung Reduction of area Coef. Estricção Z (A50-50mm)			
		[ J ]		[ MPa ]		[ MPa ]		[ MPa ]		[ % ]		[ % ]			
		3027074.01.01		228		294		331		638		65.1		79.9	
3027074.01.02		222		305		336		652		64.4		79.2			
Visuelle Kontrolle Visual inspection Inspeção visual		<input checked="" type="checkbox"/> Ok		DIN EN 6506-1 Härte Hardness Dureza [ HB ] 147				DIN 3851 - 2A Korrosionsbeständigkeit IC Test Corrosão intermetálica		<input checked="" type="checkbox"/> Ok		Wärmebehandlung Heat treatment Tratamento térmico  Solution annealing 1050 °C  (Water quenched)			
EN 10058 Maßkontrolle Dimensional inspection Inspeção dimensional		<input checked="" type="checkbox"/> Ok		Korngröße Grain size Tamanho de grão				Werkstoffsachverständiger Quality Control Representative Inspector de Qualidade		 2024 David Reis					
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/> Ok		Mikroskopische Untersuchung Macrographic test				Böllinghaus Portugal - Aços Especiais, SA 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.							
		<input checked="" type="checkbox"/> Ok		Material free from mercury 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 764-5 and AD 2000 W0 Notified Body 0035 - TÜV Rheinland Industrie Service GmbH 01 202 926/0-02 0040															