
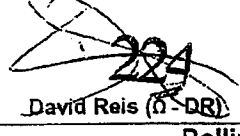


FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

 Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458	Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade		No.: / Nr.: /Nr.:					
	EN 10204:2004 / 3.1		000099905					
Unsere Innere Verweisung /Our Int. Ref/ N/ ref int		Datum / Date / Data						
5600023907 000010		10.11.2014						
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-13, NACE MR 0175, NACE MR 010								
Kunde / Customer / Cliente		Endgültiger 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. 004735		Bestell Nr./ Order Nr./ Enc.Nr. 004735.01						
Produktgruppe / Product Group / Grupo Produto		Gewicht / Weight / Peso		Bunde / Bundle / Atados				
AISI 316L FLAT 52.80 x 40.15 mm		3.542 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								
Stainless steel flat bars, hot rolled, annealed, pickled, straightened.								
Schmelzen Nr. Cast nr. / Fusão nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %						
56141694		C: 0.020	Si: 0.550	Mn: 1.560	P: 0.036	S: 0.026	Cr: 16.720	Ni: 10.110
EAF		Mo: 2.030	Co: 0.243	Cu: 0.440	N: 0.051	Ti: 0.003	W: -	V: -
Proben Nr. Test no. Amostra no.		DIN EN 10045		ISO 6892-1				
		Kerbschlagarbeit Impact Test Resiliência	Streckgrenze Yield point Tensão limite	Dehngrenze 1% point Limite de extensão	Zugfestigkeit Tensile strength Tensão de rotura	Dehnung Elongation Alongamento	Einschnürung Reduction of area Coef. Estricção	
		(Charpy V)	Rp 0,2 %	Rp 1,0%	Rm	A (A50-50mm)	Z (A50-50mm)	
		[J]	[MPa]	[MPa]	[MPa]	[%]	[%]	
3041570.02.01		231	284	311	615	64.0	77.8	
3041570.02.02		227	296	324	628	65.1	79.0	
Visuelle Kontrolle Visual inspection inspeção visual <input checked="" type="checkbox"/> Ok		DIN EN 6506-1		DIN 3651 - 2A		Wärmebehandlung Heat treatment Tratamento térmico Solution annealing 1050 °C (Water quenched)		
EN 10058		Härte Hardness Dureza 144 [HB]		Korrosionsbeständigkeit IC Test <input checked="" type="checkbox"/> Ok				
Maßkontrolle Dimensional inspection inspeção dimensional <input checked="" type="checkbox"/> Ok		Korngröße Grain size Tamanho de grão		Werkstoffverständiger Quality Control Representative Inspector da Qualidade				
Verwechslungsprüfung Test of identity Teste de identificação <input checked="" type="checkbox"/> Ok		Makroskopische Untersuchung Macrographic test		 David Reis (D-DR)		Bollinghaus Steel, SA 20/11/14		
Material free from segregation defects. <input checked="" type="checkbox"/> Ok								
Bemerkungen / Remarks / Observações				Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.				
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 - TUV Rheinland Industrie Service GmbH 01 202 926/Q-02 0040				We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.				

I29.A PP

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1/2" NPT F/F/F FXD TEE 10K 316L