
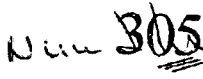


F9651 - 3/4" NPT F/F/F/F Cross 10K

		Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade						No.: / Nr.: /Nr.:							
		EN 10204:2004 / 3.1						0000095427							
Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458		Unsere innere Verweisung /Our Int. Ref/ N/ ref int						Datum / Date / Data							
		5600021684 000010						30.04.2014							
Normen / Standards / Normas															
1.4404 acc. to EN 10088-3: 05, to ASTM A276-10, A479/A479M-13 ASME SA276, SA479/SA479M, ASTM A484/A484M-13 NACE MR 0175-2001															
Kunde / Customer / Cliente						Endgültiger Kunde / Final Customer / Cliente Final									
Bestell Nr./Order Nr./ Enc.Nr. B01657						Bestell Nr./ Order Nr./ Enc.Nr. B01657.1									
Prufgegenstand / Product / Produto				Gewicht / Weight / Peso				Bunde / Bundle / Atados							
AISI 316/L SQ 3"				2.049 kg				04							
Werkstoff-Nr. Material-no. Qualidade			Werkstoff-Normbezeichnung / Material standard grade / Norma do material												
1.4404			X 2 CrNiMo 17-12-2												
Beschreibung / Description / Descrição										FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL					
Stainless steel square bars hot rolled, heat treated, straightened, pickled.															
Schmelzen Nr. Cast nr. / Fusão nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %													
56140406		C:	0.020	Si:	0.580	Mn:	1.550	P:	0.031	S:	0.027	Cr:	16.710	Ni:	10.080
EAF		Mo:	2.040	Co:	0.380	Cu:	0.390	N:	0.050	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 ]		[ % ]		[ % ]		
3037998.02.01		218			295		344		600		66.5		70.0		
3037998.02.02		215			311		352		609		64.9		68.9		
Visuelle Kontrolle Visual Inspection Inspeção visual		<input checked="" type="checkbox"/> OK		DIN EN 6506-1			DIN 3651 - 2A			Wärmebehandlung Heat treatment Tratamento térmico					
		Härte Hardness Dureza			170 [ HB ]			Korrosionsbeständigkeit IC Test			<input checked="" type="checkbox"/> OK				
ASTM A484		Korngröße Grain size Tamanho de grão			Werkstoffverständiger Quality Control Representative Inspector da Qualidade			Solution annealing 1050 °C  (Water quenched)							
Maßkontrolle Dimensional Inspection Inspeção dimensional											<input checked="" type="checkbox"/> OK				
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/> OK		Makroskopische Untersuchung Macrographic test			 David Reis (Ø - DR)								
		Material free from segregation defects.			<input checked="" type="checkbox"/> OK										
Bemerkungen / Remarks / Observações						Bollinghaus Steel, SA									
Country of origin: Portugal. No weld repair done.						Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.									
Material is free of mercury and radiation contamination.						We confirm that this material meets the specification according to the mentioned standards.									
Certified acc. PED 97/23/EC-EN 764-5 and AD 2000 W0						Confirmamos que este material respeta as especificações de acordo com as normas referidas.									
Notified Body 0035 - TÜV Rheinland Industrie Service GmbH															
01 202 926/Q-02 0040															