



FLOW TECHNOLOGY LTD

TEST CERTIFICATE

VERIFIED TRUE

COPY OF ORIGINAL

 <p>Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 090458</p>	Abnahmeprüfzeugnis/Nilil Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1		No.: / Nr.: /Nr.: 0000135261							
	Unsere innere Verweisung /Our Int. Ref/ N/ ref int 5600037778 000020		Datum / Date / Data 10.11.2017							
Spezifikation / Standards / Normas										
1.4401/1.4404 acc. to EN 10083-3:2014, TYPE 316/UNS31600 and TYPE 316L/UNS 31603 acc. to ASTM A276/A276M-16a, ASTM A479/A479M-16a, ASTM A282-16 Pract. E, NACE MR0175-2015 and NACE MRD103-2016, execution as per EN 10058:2003, with size tolerances +0/-1 mm.										
Kunde / Customer / Cliente			Endgültiger Kunde / Final Customer / Cliente Final							
Bestell Nr./Order Nr./ Enc.Nr. 005340			Bestell Nr./ Order Nr./ Enc.Nr. 005340.03							
Produktgruppe / Product Group / Grupo Produto AISI 316L FLAT 65,8 X 40,4 MM		Gewicht / Weight / Peso 5.479 kg		Bunde / Bundle / Atados 04						
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, heat treated, straightened and pickled.										
Schmelzen Nr. Cast nr. / Fusão nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %								
56171808	C	0.019	Si 0.470	Mn 1.620	P 0.028	S 0.028	Cr 16.630	Ni 10.080		
EAF-AOD	Mo	2.030	Co 0.279	Cu 0.450	N 0.052	Ti 0.002	Al 0.005	-	-	-
Proben Nr. Test no. Amostra no.	ISO 148-1		DIN EN ISO 6892-1							
	Kerschlagarbeit Impact Test Resiliência		Streckgrenze Yield point Tensão limite	Dehngrenze 1% point Limite de estiramento	Zugfestigkeit Tensile strength Tensão de rotura	Dehnung Elongation Alongamento		Einschnürung Reduction of area Coef. Estrição		
	(Charpy V)		Rp 0,2 %	Rp 1,0%	Rm	A5	A0	Z		
	[J]		[MPa]	[MPa]	[MPa]	[%]	[%]	[%]		
3066350.03.01	219		309	351	612	55.8	57.6	71.1		
3066350.03.02	221		314	358	617	55.1	58.8	70.4		
3066350.03.03	224		320	364	621	54.6	56.1	69.8		
Visuelle Kontrolle Visual inspection inspeção visual		DIN EN ISO 6506-1 Härte Hardness Dureza [HB]		DIN EN ISO 3651 - 2A Korrosionsbeständigkeit IC Test Corrosão Intermetálica		Wärmebehandlung Heat treatment Tratamento térmico Solution annealing 1050 °C (Water quenched)				
Maßkontrolle Dimensional inspection inspeção dimensional		Korngröße Grain size Tamanho de grão		Abnahmebeauftragter Authorized inspection Representative Inspector de Qualidade  Vasco Ferreira (Q - VF)						
Verwechslungsprüfung Test of identity Teste de identificação		Makroskopische Untersuchung Macrographic test 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 2014/68/EU and AD 2000 W0 Notified Body 0038 - TÜV Rheinland Industrie Service GmbH 01 202 926/Q-02 0040					Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. 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.					

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