


BOLLINGHAUS[®] STEEL Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458	Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1		No.: / Nr.: /Nr.: 0000102385												
	Unsere innere Verweisung /Our Int. Ref/ N/ ref int 5600024793 000030		Datum / Date / Data 19.02.2015												
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 276-13a, ASTM A479/A479M-13, NACE MR 0175, NACE MR 010															
<div style="border: 1px solid red; padding: 5px; color: red; text-align: center;"> FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL </div>			Endgültiger Kunde / Final Customer / Cliente Final												
Bestell Nr./Order Nr./ Enc.Nr. 004810		Bestell Nr./ Order Nr./ Enc.Nr. 004810.12													
Produktgruppe / Product Group / Grupo Produto AISI 316L FLAT 52.80 x 40.15 mm		Gewicht / Weight / Peso 3.236 kg		Bunde / Bundió / Atados 03											
^a Werkstoff-Nr. Material-no. Qualdade 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 %													
56142010		C:	0.019	Si:	0.530	Mn:	1.530	P:	0.036	S:	0.025	Cr:	16.980	Ni:	10.090
EAF		Mo:	2.060	Co:	0.341	Cu:	0.460	N:	0.056	Ti:	0.004	W:	-	V:	-
Proben Nr. Test no. Amostra no.	DIN EN 10045			ISO 6892-1											
	Kerbschlagarbeit Impact Test Resiliência {Charpy V}			Streckgrenze Yield point Tensão limite Rp 0,2 %		Dehngrenze 1% point Limite de extensão Rp 1,0%									
	[J]			[MPa]		[MPa]									
	Zugfestigkeit Tensile strength Tensão de ruptura Rm			Dehnung Elongation Alongamento A {A5/4D}		Einschnürung Reduction of area Coef. Estricção Z									
[%]			[MPa]		[MPa]										
3043166.02.01		224			306		339		630		64.6		77.6		
3043166.02.02		220			316		350		639		63.0		75.7		
Visuelle Kontrolle Visual inspection Inspeção visual		<input checked="" type="checkbox"/> OK		DIN EN 6506-1 Härte Hardness Dureza 160 [HB]		DIN EN ISO 3651 - 2A Korrosionsbeständigkeit IC Test Corrosão Intermetálica <input checked="" type="checkbox"/> OK		Wärmebehandlung Heat treatment Tratamento térmico Solution annealing 1050 °C (Water quenched)							
DIN EN 10058 Maßkontrolle Dimensional inspection Inspeção dimensional		<input checked="" type="checkbox"/> OK		Korngröße Grain size Tamanho de grão -		Werksachverständiger Quality Control Representative Inspector da Qualidade  David Reis (Q - DR)		(Water quenched)							
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/> OK		Makroskopische Untersuchung Macrographic test Material free from segregation defects.		<input checked="" type="checkbox"/> OK		(Water quenched)							
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 W0 Notified Body 0035 - TUV 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 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 FXD 90 DEG ELBOW 10K 316L