



F12302
1" NPT F/F 90° Elbow 10K

 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.: 0000128227												
	Unsere Innere Verwelsung /Our Int. Ref/ N/ ref int 5600034852 000010		Datum / Date / Data 28.04.2017												
Normen / Standards / Normas 1.4401/1.4404 acc. to EN 10088-3:2014 (Condition 1D), TYPE 316/UNS S31600 and TYPE 316L/UNS S31603 acc. to ASTM A276/A276M-16a, ASTM A479/A479M-16a, ASME SA276/SA276M-2015, ASME SA479/SA479M-2015, execution as per ASTM A484/A484M-16.															
Kunde / Customer / Cliente Amodil Supplies LTD. Cleobury Mortimer - Forest Park DY14 9BD Kidderminster		Endgültiger Kunde / Final Customer / Cliente Final Amodil Supplies LTD. Cleobury Mortimer - Forest Park DY14 9BD Kidderminster													
Bestell Nr./Order Nr./ Enc.Nr. B01959		Bestell Nr./ Order Nr./ Enc.Nr. B01959.1													
Produktgruppe / Product Group / Grupo Produto AISI 316/L SQ 3"		Gewicht / Weight / Peso 2.253 lb		Bunde / Bundle / Atados 02											
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 square bars, hot rolled, heat treated, straightened and pickled US DFAR 252.225-7009; MELT SOURCE: France / MFG: Portugal.				FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL											
Schmelzen Nr. / Cast nr. / Fusão nr. 67643022		Chemische Analyse in % / Chemical composition in % / Análise química em %													
		C	0.016	Si	0.411	Mn	1.348	P	0.031	S	0.023	Cr	16.713	Ni	10.111
EAF+AOD		Mo	2.032	Co	0.165	Cu	0.405	N	0.041	Ti	0.001	-	-	-	-
Proben Nr. / Test no. / Amostra no. 3061235.01.01		ASTM E399			ASTM A370										
		Kerbschlagarbeit Impact Test Resiliência {Charpy V}		Streckgrenze Yield point Tensão limite Rp 0,2 %		Dehngrenze 1% point Limite de extensão Rp 1,0%	Zugfestigkeit Tensile strength Tensão de rotura Rm		Dehnung Elongation Alongamento A5 4D		Einschnürung Reduction of area Coef. Estricção Z				
		[J]		[Ksi]		[Ksi]	[Ksi]		[%] [%]		[%]				
		215.0		49.9		54.4	92.1		63.4 67.0		69.5				
Visuelle Kontrolle Visual Inspection Inspeção visual <input checked="" type="checkbox"/> Ok		ASTM E10 Härte Hardness Dureza 179 [HB]		ASTM A262 Practice E Korrosionsabeständigkeit IC Test Corrosão Interocristalina <input checked="" type="checkbox"/> Ok		Wärmebehandlung Heat treatment Tratamento térmico Annealed Quenched 1900 °F (1050 °C) (water quenched)									
ASTM A484 Maßkontrolle Dimensional inspection Inspeção dimensional <input checked="" type="checkbox"/> Ok		ASTM E112 Korngröße Grain size Tamanho de grão -		Werksachverständiger Quality Control Representative Inspetor de Qualidade  Nuno Silva (Ω- NS)											
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													
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.				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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