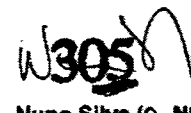


BOLLINGHAUS STEEL Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458	Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1										No.: / Nr.: /Nr.: 0000124655						
	Unsere Innere Verweisung /Our Int. Ref/ N/ ref Int 5600033483 000010										Datum / Date / Data 26.01.2017						
Normen / Standards / Normas 1.4404 acc. to EN 10088-3:2014, valid and dual certified as AISI 316/316L acc. to ASTM A276/A276M-16a, A479/A479M-16a, ASME SA276, SA479/SA479M, NACE MR 0175-2001, 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. B01923							Bestell Nr./ Order Nr./ Enc.Nr. B01923.01										
Produktgruppe / Product Group / Grupo Produto AISI 316/L SQ 3"					Gewicht / Weight / Peso 2.003 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 square bars hot rolled, heat treated, straightened, pickled.																	
Schmelzen Nr. / Cast nr. / Fusão nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %															
67633127		C	0.020	Si	0.413	Mn	1.309	P	0.028	S	0.023	Cr	16.607	Ni	10.077		
EAF+AOD		Mo	2.040	Co	0.163	Cu	0.442	N	0.040	Ti	0.001	Nb	0.022	-	-		
ISO 148-1 Kerbschlagarbeit Impact Test Resiliência {Charpy V} [J]				DIN EN ISO 6892-1 Streckgrenze Yield point Tensão limite Rp 0,2 % [MPa]				Dehngrenze 1% point Limite de expansão Rp 1,0% [MPa]		Zugfestigkeit Tensile strength Tensão de rotura Rm [MPa]		Dehnung Elongation Alongamento A5 4D [%] [%]		Einschnürung Reduction of area Coef. Estricção Z [%]			
3058974.01.01				220				312		356		612		64.5 67.6		70.9	
3058974.01.02				216				329		369		624		63.9 66.0		69.9	
Visuelle Kontrolle Visual inspection Inspeção visual <input checked="" type="checkbox"/> Ok		DIN EN ISO 6506-1 Härte Hardness Dureza 167 [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)							
ASTM A484 Maßkontrolle Dimensional inspection Inspeção dimensional <input checked="" type="checkbox"/> Ok		Korngröße Grain size Tamanho da grão -				Werkstoffverständiger Quality Control Representative Inspector da Qualidade  Nuno Silva (Q-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 the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.										