

F57331

 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.: 0000113243
	Unsere innere Verweisung /Our Int. Ref/ N/ ref int 5600029066 000070	Datum / Date / Data 01.03.2016

Normen / Standards / Normas

W.Nr. 1.4401/1.4404 acc. to BS EN 10088-3:2014, BS EN 10272:2008-01, AISI 316/316L, acc. to ASTM A479/A479M-16, A182/A182M-15, A320/A320M-15, A276/A276M-16, but with size tolerances of -0 / +1 mm, "Improved Machinability", I.C.C. Tested to ASTM A262-15 Practice E, NACE MR0175, NACE MR0103, DIN 17440, ASME SA182/SA 182M, SA276, SA479/SA479M, EN 10058:2003, EN 10163-2 class B, Sulphur Content 0.020% - 0.030%, Max. Hardness 180 HB
 Heat treatment soaking time 3h

Kunde / Customer / Cliente Offshore Stainless Supplies Ltd. Toll Point, Lichfield Road WS8 6JZ West Midlands	Endgültiger Kunde / Final Customer / Cliente Final Offshore Stainless Supplies Ltd. Toll Point, Lichfield Road WS8 6JZ Brownhills
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Bestell Nr./Order Nr./ Enc.Nr. 009897	Bestell Nr./ Order Nr./ Enc.Nr. 009897.17
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Produktgruppe / Product Group / Grupo Produto AISI 316/L FLAT 65 X 52,5 MM	Gewicht / Weight / Peso 2.363 kg	Bunde / Bundle / Atados 02
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Werkstoff-Nr. / Material-no. / Qualidade 1.4404	Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNiMo 17-12-2
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Beschreibung / Description / Descrição

Stainless steel flat bars, hot rolled, annealed, pickled, straightened.

F12084
3/4" NPT F/F/F Equal Tee 10K

Schmelzen Nr. / Cast nr. / Fusão nr. 56160017	Chemische Analyse in % / Chemical composition in % / Analise quimica em %													
	C	0.019	Si	0.480	Mn	1.550	P	0.025	S	0.028	Cr	16.800	Ni	10.120
EAF+AOD	Mo	2.030	Co	0.327	Cu	0.380	N	0.046	Ti	0.003	Nb	0.045	-	-

Proben Nr. / Test no. / Amostra no.	DIN EN 10045			DIN EN 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. Estriação	
	{Charpy V}	Rp 0,2 %	Rp 1,0%	Rm	A {A5/4D}	Z	
	[J]	[MPa]	[MPa]	[MPa]	[%]	[%]	
3051142.02.01	230	298	354	632	65.4	75.9	
3051142.02.02	228	306	362	640	62.1	71.6	

Visuelle Kontrolle / Visual inspection / Inspeção visual <input checked="" type="checkbox"/> OK	DIN EN ISO 6506-1 Härte / Hardness / Dureza 148 [HB]	DIN EN ISO 3651 - 2A Korrosionsabständigkeit / IC Test / Corrosão Inter cristalina <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  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	Bollinghaus Steel, SA	

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 764-5 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 to the mentioned standards.
 Confirmamos que este material respeita as especificações de acordo com as normas referidas.