

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.:

0000134927

Unsere Innere Verweisung /Our Int. Ref/ N/ ref int

5600037626 000040

Datum / Date / Data

27.10.2017

Normen / Standards / Normas

1.4401/1.4404 acc. to EN 10088-3:2014 (Condition 1D), EN 10272:2016-10, TYPE 316/UNS S31600 and TYPE 316L/UNS S31603 acc. to ASTM A182/A182M-16a, ASTM A276/A276M-16a, ASTM A479/A479M-16a, ASTM A262-15 Pract. E, ASME SA182/SA182M, ASME SA276, ASME SA479/SA479M, NACE MR0175-2015, EN 10058:2003, with size tolerances -0/+1 mm, in conformity to PED 2014/68/EU, Material delivered acc. to specifications 1 and 2.

Hardness max. 180 HB. Sulphur content 0.02-0.03 %

Kunde / Customer / Cliente

Offshore Stainless Supplies Ltd.
Toll Point, Lichfield Road
WS8 6JZ Walsalls

Endgültiger Kunde / Final Customer / Cliente Final

Offshore Stainless Supplies Ltd.
Toll Point, Lichfield Road
WS8 6JZ Brownhills

Bestell Nr./Order Nr./ Enc.Nr. 010904

Bestell Nr./ Order Nr./ Enc.Nr. 010904.11

Produktgruppe / Product Group / Grupo Produto

AISI 316/L FLAT 64,75 X 52,15 MM

Gewicht / Weight / Peso

3.321 kg

Bunde / Bundle / Atados

03

Werkstoff-Nr.

Material-no. 1.4404
Qualidade

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,

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

Chemische Analyse in % / Chemical composition in % / Análise química em %

Schmelzen Nr. Cast nr. / Fusão nr.	C	0.023	Si	0.480	Mn	1.640	P	0.032	S	0.026	Cr	16.670	Ni	10.100
56171374														
EAFAOD	Mo	2.080	Co	0.183	Cu	0.310	N	0.052	Ti	0.002	Al	0.008	-	-

Proben Nr. Test no. Amostra no.	ISO 148-1			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 % [MPa]	Rp 1,0% [MPa]	Rm [MPa]	A5 [%]	4D [%]	Z [%]
3065796.01.01	214	371	412	672	58.7	61.9	70.4
3065796.01.02	217	362	404	667	59.4	62.6	71.2

Visuelle Kontrolle Visual inspection Inspeção visual <input checked="" type="checkbox"/> Ok	DIN EN ISO 6506-1 Härte Hardness Dureza 175 [HB]	DIN EN ISO 3651 - 2A Korrosionsbeständigkeit IC Test <input checked="" type="checkbox"/> Ok Corrosão Intermetálica	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 (Q-NS)	
Verwechslungsprüfung Test of identity Teste de identificação <input checked="" type="checkbox"/> Ok	Makroskopische Untersuchung Macrographic test <input checked="" type="checkbox"/> Ok 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 0035 - 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 the mentioned standards.
Confirmamos que este material respeta as especificações de acordo com as normas referidas.