

 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.: 0000138510	
	Unsere innere Verweisung /Our int. Ref/ ref int 5600039125 000010		Datum / Date / Data 09.02.2018	
Spezifikation / Standards / Normas 1.4401/1.4404 acc. to EN 10088-3:2014, TYPE 316/UNS31600 and TYPE 316L/UNS 31603 acc. to ASTM A276/A276M-16a, ASTM A479/A479M-16a, ASTM A262-15 Pract. E, NACE MR0175-2015 and NACE MR0103-2015, execution as per EN 10058:2003, with size tolerances +0/-1 mm				
Kunde / Customer / Cliente Hi-Tech Special Steels Limited Rotherham Road S25 3RF Sheffield		Endgültiger Kunde / Final Customer / Cliente Final Hi-Tech Special Steels Limited Rotherham Road S25 3RF Sheffield		
Bestell Nr./Order Nr./ Enc.Nr. 005381		Bestell Nr./ Order Nr./ Enc.Nr. 005381.1		
Produktgruppe / Product Group / Grupo Produto AISI 316/L FLAT 40,2 X 27,5 MM		Gewicht / Weight / Peso 5.679 kg	Bunde / Bundle / Atados 05	
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 flat bars, hot rolled, heat treated, straightened and pickled				
Schmelzen Nr. / Cast nr. / Fusão nr. 56171943				
Chemische Analyse in % / Chemical composition in % / Análise química em %				
C 0.017 Si 0.500 Mn 1.540 P 0.040 S 0.026 Cr 16.860 Ni 10.040		Mo 2.080 Co 0.212 Cu 0.320 N 0.048 Ti 0.003 Al 0.005		
Proben Nr. / Test no. / Amostra no.		ISO 148-1		
Kerbschlagarbeit / Impact Test / Resistência (Charpy V)		Streckgrenze / Yield point / Tensão limite / Rp 0.2 %		
Dehnung / Elongation / Alongamento		Dehngrenze 1% point / Limite de extensão / Rp 1.0%		
Zugfestigkeit / Tensile strength / Tensão de ruptura		Zugfestigkeit / Tensile strength / Tensão de ruptura		
Einschnürung / Reduction of area / Coef. Estiço		Einschnürung / Reduction of area / Coef. Estiço		
3067860.02.01		234.0 257 308 609 63.5 65.4 76.4		
3067860.02.02		231.0 263 314 614 62.8 64.9 73.8		
3067860.02.03		227.0 270 321 619 61.8 64.2 73.0		
Visuelle Kontrolle / Visual inspection / Inspeção visual <input checked="" type="checkbox"/> Ok		DIN EN ISO 6506-1 Hartw / Hardness / Dureza 144 [HB]	DIN EN ISO 3651 - 2A Korrosionsbeständigkeit / IC Test <input checked="" type="checkbox"/> Ok Gefüge / microstructure <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	Abschmeibbeauftragter / Authorized inspection Representative / Inspector de Qualidade  Vasco Ferreira (Q - VF)	
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.		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.		

13.SPG03-10.CA

FLOW TECHNOLOGY LTD
 TEST CERTIFICATE
 VERIFIED TRUE
 COPY OF ORIGINAL

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 1/4" NPT F/F FXD 90 DEG ELBOW 10K 316L