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Management Systems
Certified by
LRQA
ISO 9001 / SGI 6000360
ISO 14001 / SGI 1870678

ACEROS INOXIDABLES

OLARRA

OLARRA U.K. LTD.
FOREST PARK - CLEOBURY MORTIMER
NR KIDDERMINSTER - DY 14 9BD - ENGLAND

Trade Mark - Zeichen des Lieferwerkes
Anagrama del suministrador 

Works Inspector Stamp - Werkssachverständiger
Sello del Inspector 

Certificate type - APZ Nach Certificado tipo	EN 10204/3.1	Certificate n° - Prüf-Nr Certificado n°	325057	Date - Datum - Fecha	22 - 09 - 2017
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Our order N° Werks - Nr N° de Referencia	638045	Heat Schmelze Colada	437814	Your order N° Bestell - Nr Pedido N°	OL7885
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Steel Grade Werkstoff Calidad	316-S-11 AV	According to Entsprechend Corresponde	BS 970:PART 3:1991.
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Shape and Size - Gegenstad Perfil y dimensión HEXAGON 22,23 mm	Tolerance - Toleranz Tolerancia h 11 /DIN 176	Bundles Bunde Bultos	2	Bars Stäbe Barras	90	Weight Gewicht Peso	939 Kg
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Requirements - Anforderungen - Exigencias

EN 10.088-3.2014. EN 10.272-2007. ASTM A 182/A 182M-16. ASTM A 479 / A 479M-17. ASTM A 276/A 276M-17. ASME SA 479 / SA 479M-15 SAE AMS 5653H-12. NACE MR-0175/ISO 15156-3 2015. NACE MR-0103/ISO 17945-2015. NORSOK M-630 and MDS S01.	316S31AV-1.4404-1.4401-Type 316-Type 316L. PED 2014/68/EU, Annex I, Parag.4.3/DGR 2014/68/EU Anhang I Absatz 4.3 Certificate/Zertifikat Nr. 348/2008/MUC
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FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

Melting process / Erschmelzungsart / Proceso de Fusión	E.A.F. / A.O.D.	Heat treatment / Wärmebehandlung / Tratamiento térmico	1060C 4H/Std WATER/WASSER/AGUA
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Solution annealed/Abgeschreckt/Hipertemple-Cold drawn/Gezogen/Estirado-

Test results - Ergebnis der Prüfungen - Resultados de los ensayos

Dimension of Specimen Abmessungen des Probestabes Medida de las probetas	Rp0,2% N/mm2 MPA	Rp 1% N/mm2 MPA	Rm N/mm2 MPA	A %L 5D	A %L 4D	Z %	Hardness Härte HBw	Impact test / Kersbschlag / Resiliencia ISO V Jules	
RD. 10,00 mm.	Min.	325	375	550	20				
	Max.								
Temperature °C 20	Spec. N° Probe Nr. Pro N°.	1	500	582	652	36	39	74	217

	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N	Co
Min.						16,50	2,00	11,00			
Max.	0,030	1,00	2,00	0,045	0,030	18,50	2,50	14,00	0,70		
	0,018	0,68	1,63	0,033	0,028	17,15	2,01	11,05	0,36	0,0210	0,18

Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional	O.K.	Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad	O.K.	Antimixing test Spektrosk Verwechslungspr Antimezcla	O.K.	Grain Size Korngröße Tamaño de grano	5-6 ASTM E-112-13
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Remarks - Bemerkungen - Observaciones IC test acc./IK prüfung nach ASTM A 262 E.15. OK Crack control/Rissgeprüft acc. EN 10277-1 class 2. OK F14963 1/2" X 1/4" NPT HEX RED NIPPLE 10K 316L	EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. Works Inspector Der Werkssachverständige Inspector de fábrica
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