

Larrondo LOIU (VIZCAYA) España
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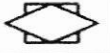
Management Systems
 Certified by
 LRQA
 ISO 9001 / SGI 6000360
 ISO 14001 / SGI 1870678

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

3

Certificate type - APZ Nach Certificado tipo	EN 10204/3.1	Certificate n° - Prüf-Nr Certificado n°	284641	Date - Datum - Fecha	14 - 09 - 2016
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Our order N° Werks - Nr N° de Referencia	604995	Heat Schmelze Colada	415794	Your order N° Bestell - Nr Pedido N°	OL7345
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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 ROUND 27 mm	Tolerance - Toleranz Tolerancia h 10 /ISO 286-1	Bundles Bunde Bultos	4	Bars Stäbe Barras	Weight Gewicht Peso	2482 Kg
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Requirements - Anforderungen - Exigencias

EN 10.088-3.2014. EN 10.272-2007. ASTM A 182 / A 182M-15. ASTM A 479 / A 479M-15. ASTM A 276-16a. ASME SA 479 / SA 479M-15 NACE MR-0175/ISO 15156-3 2009. SAE AMS 5653H-12. NORSOK M-630 and MDS S01. ASME SA 182 / SA 182M-15	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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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-Turned/Drehen/Torneado-Polished/Poliert/Pulido-

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.	190	225	490	40				
	Max.								
Temperature °C 20	Spec. N°. Probe Nr. Pro N°.	1	321	357	589	49	52	73	170

	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	0,41	1,68	0,035	0,027	17,00	2,01	11,10	0,35	0,0280	0,21

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
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Remarks - Bemerkungen - Observaciones

IC test acc./IK prüfung nach ASTM A 262 E.14. OK
 100% US test/US prüfung. OK

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

F11769
 9/16" MEDIUM PRESSURE GLAND 316L

EDV / EDP
 Acc. EN 10.204
 Marian Tejedo
 Quality Mng.

Works Inspector
 Der Werkssachverständige
 Inspector de fábrica