



Larrondo LOIU (VIZCAYA) España
P.O. Box 1.323/48080 Bilbao
Tel. 34-(4) 4 71 13 00
Fax.34-(4) 4 53 16 36

Management Systems
Certified by
IRQA
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° | | 279702 | | Date - Datum - Fecha | | 06 - 07 - 2016 | |
| Our order N° Werks - Nr N° de Referencia | | 596389 | | Heat Schmelze Colada | | 411298 | | Your order N° Bestell - Nr Pedido N° | | OL7136 | |
| Steel Grade Werkstoff Calidad | | 316-S-11 AV | | According to Entsprechend Corresponde | | BS 970:PART 3:1991. | | | | | |
| 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 | | 92 | |
| | | | | | | | | Weight Gewicht Peso | | 973 Kg | |
| Requirements - Anforderungen - Exigencias | | | | | | Anhang I Absatz 4.3 Certificate/Zertifikat Nr. 348/2008/MUC | | | | | |
| 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 SAE AMS 5653H-12. NACE MR-0175/ISO 15156-3 2009. 316S31AV-1.4404-1.4401-Type 316-Type 316L. PED 97/23/EC, Annex I, Parag.4.3/DGR 97/23/EG | | | | | | | | | | | |
| Melting process / Erschmelzungsart / Proceso de Fusión | | | | Heat treatment / Wärmebehandlung / Tratamiento térmico | | | | | | | |
| E.A.F. / A.O.D. | | | | 1060C 4H/Std WATER/WASSER/AGUA | | | | | | | |
| 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 ₅₀ %L 4D | Z % | Hardness Härte HBw | Impact test / Kerschschlag / Resiliencia ISO V Jules | | |
| RD. 10,00 mm. | | Min. 325 | 375 | 550 | 20 | | | | | | |
| | | Max. | | | | | | | | | |
| Temperature °C 20 | Spec. N° Probe Nr. Pro N° | 1 | 513 | 598 | 657 | 34 | 37 | 72 | 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 | | |
| | 0,022 | 0,38 | 1,65 | 0,033 | 0,028 | 16,95 | 2,01 | 11,10 | 0,47 | 0,0295 | 0,17 |
| Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional | | | Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad | | | Antimixing test Spektroskop Verwechslungspr Antimezcla | | | Grain Size Korngröße Tamaño de grano | | |
| O.K. | | | O.K. | | | O.K. | | | | | |
| Remarks - Bemerkungen - Observaciones | | | | | | | | | | | EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. Works Inspector Der Werkssachverständige Inspector de fábrica |
| IC test acc./IK prüfung nach ASTM A 262 E.13. OK Crack control/Rissgeprüft acc. EN 10277-1 class 2. OK | | | | | | | | | | | |
| F12562 3/4" JIC Swivel Female x 7/16" JIC Male Adaptor 10K 316L | | | | | | | | | | | |