

Larrendo 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
LRQA
ISO 9001 / 501 600360
ISO 14001 / 501 1870678

ACEROS INOXIDABLES

OLARRA

OLARRA U.K. LTD.
FOREST PARK - CLEOBURY MORTIMER
NR KIDDERMINSTER - DY14 9BD - ENGLAND

Trade Mark - Zeichen des Lieferwerkes
Anagrama del suministrador



Works Inspector Stamp - Werksachverständiger
Sello del Inspector



| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------------------------|--|--|--|--|--|---|--|--|--|---------------------------|--|--|--|--|--|------|--|--------|--|------|--|--|--|--|--|
| Certificate type - APZ Nach Certificado tipo | | EN 10204/3.1 | | Certificate n° - Prüf-Nr Certificado n° | | 166203 | | Date - Datum - Fecha 30. - 09 - 2013 | | | | | | | | | | | | | | | | | | | |
| Our order N° Werks - Nr N° de Referencia | | 522151 | | Heat Schmelze Colada | | 359018 | | Your order N° Bestell - Nr Pedido N° | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | OL5785 | | | | | | | | | | | | | | | | | | | |
| Steel Grade Werkstoff Calidad | | | | 316-S-11 AV | | | | According to Entsprechend Corresponde | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | BS 970:PART 3:1991. | | | | | | | | | | | | | | | | | | | |
| Shape and Size - Gegenstad Perfil y dimensión ROUND 22,23 mm | | | Tolerance - Toleranz Tolerancia h 9 / DIN 671 / EN 10278 | | | Bundles Bunde Bultos | | 2 | | Bars Stäbe Barras | | Weight Gewicht Peso | | 1104 Kg | | | | | | | | | | | | | |
| Requirements - Anforderungen - Exigencias | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EN 10.088-3.2005. EN 10.272-2007. ASTM A 182 / A 182M-13. ASTM A 479 / A 479M-13a. ASTM A.276-10. ASME SA 479 / SA 479M-11a. NACE MR-0175-2003/ISO 15156-3 2009. SAE AMS 5653H-12. 316S31AV-1.4404-1.4401-TP.316L-TP.316. PED 97/23/EC, Annex I, Parag.4.3/DGR 97/23/EG | | | | | | Anhang I Bsatz 4.3 Certificate/Zertifikat Nr. 348/2008/MUC | | | | | | | | | | | | | | | | | | | | | |
| Melting process / Erzeugungstyp / Proceso de Fusión E.A.F. / A.O.D. | | | | | | Heat treatment / Wärmebehandlung / Tratamiento térmico 1060C 4H/Std WATERWASSER/AGUA | | | | | | | | | | | | | | | | | | | | | |
| Solution annealed/Abgeschreckt/Hipertempe-Cold drawn/Gezogen/Estrado-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 / Kernschlag / Resiliencia ISO V Jules | | | | | | | | | | | |
| RD. 10,00 mm. | | Min. 325 | | 375 | | 560 | | 20 | | | | | | | | | | | | | | | | | | | |
| Max. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature °C 20 | | Spec. N° Probe Nr. Pro N°. | | 1 | | 443 | | 561 | | 634 | | 36 | | 39 | | 73 | | 212 | | | | | | | | | |
| | | 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 | | 16,50 | | 2,50 | | 14,00 | | 0,70 | | | | | | | | | |
| | | 0,023 | | 0,38 | | 1,74 | | 0,034 | | 0,027 | | 17,05 | | 2,02 | | 11,05 | | 0,35 | | 0,0255 | | 0,16 | | | | | |
| Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional | | | | O.K. | | | | Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad | | | | O.K. | | | | Anti-imping test Spektroskop Verwechslungspr Anti-imping | | | | O.K. | | | | Grain Size Korngröße Tamaño de grano | | | |
| Remarks - Bemerkungen - Observaciones | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IC test acc./IK prüfung nach ASTM A 262 E.02. OK | | | | | | | | | | FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL | | | | EDV / EDP Acc. EN 10.204 Alfredo Molina Certification Mng. Works Inspector Der Werksachverständige Inspector de fábrica | | | | | | | | | | | | | |
| F9709 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7/16" JIC M/M 90° ELBOW 10K 316L | | | | | | | | | | | | | | | | | | | | | | | | | | | |