

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



| | | | | | | | | | | | |
|---|--|---|--|---|-------------------------|--|--------------------------|--|------|--|------|
| Certificate type - APZ Nach Certificado tipo EN 10204/3.1 | | Certificate n° - Prüf-Nr Certificado n° 291654 | | Date - Datum - Fecha 14 - 11 - 2016 | | | | | | | |
| Our order N° Werks - Nr 616081 N° de Referencia | Heat Schmelze 420539 Colada | Your order N° Bestell - Nr OL7509 Pedido N° | | | | | | | | | |
| Steel Grade Werkstoff 316-S-11 AV Calidad | | | According to Entsprechend BS 970:PART 3:1991. Corresponde | | | | | | | | |
| Shape and Size - Gegenstand Perfil y dimensión HEXAGON 34,93 mm | Tolerance - Toleranz Tolerancia h 11 /DIN 176 | Bundles Bunde 7 Bultos | Bars Stäbe 146 Barras | Weight Gewicht 3906 Kg Peso | | | | | | | |
| 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 SAE AMS 5653H-12. NACE MR-0175/ISO 15156-3 2009. NACE MR-0103-12/ISO 17945-2015. 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 | | | | | | | | |
| Melting process / Erschmelzungsart / Proceso de Fusión E.A.F. / A.O.D. | | | Heat treatment / Wärmebehandlung / Tratamiento térmico 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 Probestat. as Medida de las probetas | Rp0.2% N/mm2 MPA | Rp 1% N/mm2 MPA | Rm N/mm2 MPA | A %L 5D | A ₅ %L 4D | Z % | Hardness Härte HBw | Impact test / Kerschlag / Resiliencia ISO V Jules | | | |
| RD. 10,00 mm. | | Min. | 325 | 375 | 550 | 20 | | | | | |
| Temperature °C 20 | | Spec. N° Probe Nr. Pro N° | 1 | 424 | 514 | 633 | 41 | 44 | 71 | 192 | |
| | 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 | | |
| | 0,023 | 0,63 | 1,60 | 0,032 | 0,026 | 17,20 | 2,02 | 11,00 | 0,36 | 0,0245 | 0,19 |
| Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional | | Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad | | O.K. | | Antimixing test Spektroskop Verwechslungspr Antimezcla | | O.K. | | Grain Size Korngröße Tamaño de grano | |
| Remarks - Bemerkungen - Observaciones | | | | | | FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL | | EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. | | | |
| IC test acc./IK prüfung nach ASTM A 262 E. 14. OK Crack control/Rissgeprüft acc. EN 10277-1 class 2. OK | | | | | | | | | | | |
| F12183 1" X 3/4" NPT HEX NIPPLE 10K 316L 12" LONG | | | | | | | | | | | |
| | | | | | | Works Inspector Der Werkssachverständige Inspector de fábrica | | | | | |