



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

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

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 - Werksachverständiger 
Sello del Inspector

| | | | | | | | | | | | |
|---|--|---|--|--|------------|--|--------------------------|---|------|--|------|
| Certificate type - APZ Nach Certificado tipo EN 10204/3.1 | | Certificate n° - Prüf-Nr Certificado n° 294317 | | Date - Datum - Fecha 02 - 12 - 2016 | | | | | | | |
| Our order N° Werks - Nr N° de Referencia 620698 | Heat Schmelze Colada 422519 | Your order N° Bestell - Nr Pedido N° OL7591 | | | | | | | | | |
| Steel Grade Werkstoff Calidad 316-S-11 AV | | According to Entsprechend Corresponde BS 970:PART 3:1991. | | | | | | | | | |
| Shape and Size - Gegenstand Perfil y dimensión HEXAGON 19,05 mm | Tolerance - Toleranz Tolerancia h 11 /DIN 176 | Bundles Bunde 4 Bultos | Bars Stäbe 340 Barras | Weight Gewicht 2652 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 Probestabes Medida de las probetas RD. 10,00 mm. | 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 | | | |
| | Min. | 325 | 375 | 550 | 20 | | | | | | |
| | Max. | | | | | | | | | | |
| Temperature °C 20 | Spec. N° Probe Nr. Pro N° 1 | 459 | 560 | 642 | 36 | 39 | 74 | 207 | | | |
| | 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 | | |
| | 0,020 | 0,66 | 1,54 | 0,033 | 0,028 | 17,05 | 2,01 | 11,00 | 0,33 | 0,0305 | 0,16 |
| Visual and dimensional inspection Besichtigung und Ausmessung O.K. Control visual y dimensional | | Radioactivity inspection Radioaktivitätskontrolle O.K. Control de Radioactividad | | Antimixing test Spektroskop Verwechslungspr O.K. Antimezcla | | Grain Size Korngröße Tamaño de grano | | | | | |
| 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 | | | | | | | | | | EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. Works Inspector Der Werksachverständige Inspector de fábrica | |
| F12329 Qty 100 3/8" Medium Pressure Female x 10mm Standpipe c/w Groove 10K | | | | | | | | | | | |

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