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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° 342045 | | Date - Datum - Fecha 13 - 02 - 2018 | | | | | | |
| Our order N° Werks - Nr 655363 N° de Referencia | | Heat Schmelze 449199 Colada | | Your order N° Bestell - Nr OL8316 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 4 Bultos | Bars Stäbe 76 Barras | | | | | |
| | | | | Weight Gewicht 1950 Kg Peso | | | | | | |
| Requirements - Anforderungen - Exigencias | | | | | | | | | | |
| <p>EN 10.088-3.2014. EN 10.272-2007. ASTM A 182/A 182M-16. ASTM A 479 / A 479M-17. ASTM A 276/A 276M-17. ASME SA 479 / SA 479M-15 SAE AMS 5653H-12. NACE MR-0175/ISO 15156-3 2015. NACE MR-0103/ISO 17945-2015. NORSOK M-630 and MDS S01.</p> | | | <p>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</p> | | | | | | | |
| | | | <p>FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL</p> | | | | | | | |
| 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 | | 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 / Kerschlag / Resiliencia ISO V Jules | |
| RD. 10,00 mm. | | Min. 325 | 375 | 550 | 20 | | | | | |
| | | Max. | | | | | | | | |
| Temperature °C 20 | Spec. N° Probe Nr. Pro N° | 1 | 409 | 494 | 598 | 43 | 46 | 72 | 183 | |
| 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 | |
| | 0,017 | 0,61 | 1,57 | 0,036 | 0,028 | 17,15 | 2,02 | 11,05 | 0,36 | 0,0150 0,18 |
| 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 5-6 ASTM E-112-13 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 | | | | | | | | | | |
| F13297 1" NPT X 1 5/16" JIC MALE/MALE ADAPTOR 10K | | | | | | | | | | |
| <p>EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng.</p> <p>Works Inspector Der Werkssachverständiger Inspector de fábrica</p> | | | | | | | | | | |

We hereby certify that material described herein complies with the requirements agreed on the order.

Firmado digitalmente por / Signed digitally by:
ACEROS INOXIDABLES OLARRA SA - CIF A48663546
Fecha / Date: 13-02-2018 10:47