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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
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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° | | 182047 | | Date - Datum - Fecha 14 - 02 - 2014 | | | | | |
| Our order N° Werks - Nr N° de Referencia | | 532331 | | Heat Schmelze Colada | | 363606 | | Your order N° Bestell - Nr Pedido N° | | | | | |
| 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 Bultos | 2 | Bars Stäbe Barras | 156 | Weight Gewicht Peso | 1174 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 276-13. ASME SA 479 / SA 479M-13 SAE AMS 5653H-12. NACE MR-0175-2003/ISO 15156-3 2009. 316S31AV-1.4404-1.4401-TP.316L-TP.316. PED 97/23/EC, Annex I, Parag.4.3/DGR 97/23/EG | | | | | 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/Hipertemplo-Cold drawn/Gezogen/Estirado- | | | | | | | | | | | | | |
| Test results - Ergebnis der Prüfungen - Resultados de los ensayos | | | | | | | | | | | | | |
| Dimension of Specimen Abmessung des Probestabes Medida de las probetas | | Rp 0.2% 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 | 504 | 598 | 671 | 34 | 37 | 71 | 223 | | | | |
| | 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 | 0,39 | 1,71 | 0,034 | 0,027 | 17,15 | 2,02 | 11,00 | 0,46 | 0,0235 | 0,21 | | |
| Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional | | O.K. | | Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad | | O.K. | | Antimixing test Spektroskop Verwechslungspr Antimezcla | | O.K. | | Grain Size Korngröße Tamaño de grano | |
| Remarks - Bemerkungen - Observaciones | | | | | | | | | | | | | |
| IC test acc./IK prüfung nach ASTM A 262 E.02. OK Crack control/Rissgeprüft acc. EN 10277-1 class 2. OK | | | | | | | | | | | | | |
| F10485 1/4" BSPP C/S M/M ADAPTOR 15K 316L | | | | | | | | | | | | | |
| EDV / EDP Acc. EN 10.204 Alfredo Molina Certification Mng. Works Inspector Der Werkssachverständige Inspector de fábrica | | | | | | | | | | | | | |

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TEST CERTIFICATE
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COPY OF ORIGINAL