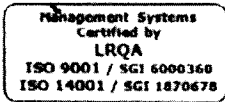


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ACEROS INOXIDABLES

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° 202453 | | Date - Datum - Fecha 30 - 07 - 2014 | | | | | | | |
| Our order N° Werks - Nr 546875 N° de Referencia | Heat Schmelze 373357 Colada | Your order N° Bestell - Nr OL6328 Pedido N° | | | | | | | | | |
| Steel Grade Werkstoff 316-S-11 AV Calidad | | According to Entsprechend BS 970:PART 3:1991. Corresponde | | | | | | | | | |
| Shape and Size - Gegenstad Perfil y dimensión HEXAGON 56,39 mm | Tolerance - Toleranz Tolerancia h 11 / DIN 176 | Bundles Bunde 3 Bultos | Bars Stäbe 23 Barras | Weight Gewicht 1521 Kg Peso | | | | | | | |
| Requirements - Anforderungen - Exigencias | | | | | | | | | | | |
| EN 10.088-3.2005. EN 10.272-2007. ASTM A 182 / A 182M-13a. ASTM A 479 / A 479M-13b. ASTM A 276-13a. ASME SA 479 / SA 479M-13 NACE MR-0175-2003/ISO 15156-3 2009. SAE AMS 5653H-12. 316S31AV-1.4404-1.4401-Type 316-Type 316L. PED 97/23/EC, Annex I, Paraq. 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/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 / Kerschschlag / Resiliencia ISO V Jules | | | |
| RD. 10,00 mm. | Min. 325 | 375 | 550 | 20 | | | | | | | |
| | Max. | | | | | | | | | | |
| Temperature °C 20 | Spec. N° Probe Nr. Pro N°. | 1 | 399 | 485 | 594 | 44 | 47 | 74 | 187 | | |
| | 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 | | |
| | 0,024 | 0,38 | 1,75 | 0,036 | 0,029 | 16,90 | 2,04 | 11,00 | 0,38 | 0,0295 | 0,17 |
| 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 | | | | | | FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL | | | EDV / EDP Acc. EN 10.204 Alfredo Molina Certification Mng. | | |
| F11044 1 1/2" BSP P Cone Seat x 1" NPT Male x Male Adaptor 10K | | | | | | | | | Works Inspector Der Werkssachverständige Inspector de fábrica | | |