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Management Systems
Certified by
LRQA
ISO 9001 / SGI 6000360
ISO 14001 / SGI 1876678

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 - Werkssachverständiger
Sello del Inspector



| | | | | | | | | | | | | | | | |
|---|---------------------------------|------------------------|---|--|------------|---|--------|---|--|-------------------------|------|---------------------------|--|--|--|
| Certificate type - APZ Nach Certificado tipo | | EN 10204/3.1 | | Certificate n° - Prüf-Nr Certificado n° | | 279646 | | Date - Datum - Fecha | | 05 - 07 - 2016 | | | | | |
| Our order N° Werks - Nr N° de Referencia | | 601380 | | Heat Schmelze Colada | | 411918 | | Your order N° Bestell - Nr Pedido N° | | OL7225 | | | | | |
| Steel Grade Werkstoff Calidad | | | | 316-S-11 AV | | | | According to Entsprechend Corresponde | | | | BS 970:PART 3:1991. | | | |
| Shape and Size - Gegenstand Perfil y dimensión | | | | Tolerance - Toleranz Tolerancia | | | | Bundles Bunde Bultos | | Bars Stäbe Barras | | Weight Gewicht Peso | | | |
| HEXAGON 22,23 mm | | | | h 11 /DIN 176 | | | | 4 | | 200 | | 2103 Kg | | | |
| 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. 316S31AV-1.4404-1.4401-Type 316-Type 316L. 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 | | | | | | Heat treatment / Wärmebehandlung / Tratamiento térmico | | | | | | | | | |
| E.A.F. / A.O.D. | | | | | | 1060C 4H/Std WATER/WASSER/AGUA | | | | | | | | | |
| Solution annealed/Abgeschreckt/Hipartemple-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 | Δ %L 4D | Z % | Hardness Härte HBw | Impact test / Kersbschlag / Resiliencia ISO V Jules | | | | | | |
| RD. 10,00 mm. | | Min. | 325 | 375 | 550 | 20 | | | | | | | | | |
| | | Max. | | | | | | | | | | | | | |
| Temperature°C 20 | Spec. N° Probe Nr. Pro N° | 1 | 480 | 576 | 645 | 36 | 39 | 74 | 212 | | | | | | |
| | | | | | | | | | | | | | | | |
| | 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 | 0,50 | 1,78 | 0,040 | 0,028 | 17,10 | 2,01 | 11,10 | 0,43 | 0,0250 | 0,17 | | | | |
| Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional | | | Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad | | | Antimixing test Spektrsk Verwechlungspr Antimezcla | | | Grain Size Korngröße Tamaño de grano | | | | | | |
| O.K. | | | O.K. | | | O.K. | | | | | | | | | |
| Remarks - Bemerkungen - Observaciones | | | | | | | | | | | | | | | |
| IC test acc./IK prüfung nach ASTM A 262 E.14. OK Crack control/Rissgeprüft acc. EN 10277-1 class 2. OK | | | | | | | | | | | | | | | |
| F12643 1/4" BSPP C/S X 1/2" NPT M/M RED ADAPTOR 10K 316L | | | | | | | | | | | | | | | |
| EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. Works Inspector Der Werkssachverständige Inspector de fábrica | | | | | | | | | | | | | | | |