



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Management Systems
Certified by
LRQA
ISO 9001 / SGI 6000360
ISO 14001 / SGI 1870678

ACEROS INOXIDABLES

OLARRA

Trade Mark - Zeichen des Lieferwerkes
Anagrama del suministrador 

Works Inspector Stamp - Werkssachverständiger
Sello del Inspector 

OLARRA U.K. LTD.
FOREST PARK - CLEOBURY MORTIMER
NR KIDDERMINSTER - DY 14 9BD - ENGLAND

| | | | | | | | | | | | |
|--|-----------------------------------|---|--|--|-------------------------|---|--------|--------------------------|--|---|------|
| Certificate type - APZ Nach Certificado tipo EN 10204/3.1 | | Certificate n° - Prüf-Nr Certificado n° 321528 | | Date - Datum - Fecha 21 - 07 - 2017 | | | | | | | |
| Our order N° Werks - Nr 634367 N° de Referencia | | Heat Schmelze 437814 Colada | | Your order N° Bestell - Nr OL7818 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 ROUND 27 mm | | Tolerance - Toleranz Tolerancia h 10 /ISO 286-1 | | Bundles Bunde 6 Bultos | Bars Stäbe Barras | | | | | | |
| | | | | Weight Gewicht 3660 Kg Peso | | | | | | | |
| Requirements - Anforderungen - Exigencias | | | | | | | | | | | |
| EN 10.088-3.2014. EN 10.272-2007. ASTM A 182/A 182M-16. ASTM A 479 / A 479M-15. ASTM A 276/A 276M-16a. ASME SA 479 / SA 479M-15 NORSOK M-630 and MDS S01. SAE AMS 5653H-12. NACE MR-0175/ISO 15156-3 2015. ASME SA 182 / SA 182M-15 | | | NACE MR-0103/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 | | | | | | | | |
| FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL | | | | | | | | | | | |
| 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-Turned/Drehen/Torneado-Polished/Poliert/Pulido- | | | | | | | | | | | |
| 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 / Kersbschlag / Resiliencia ISO V Jules | | |
| RD. 10,00 mm. | | Min. 190 | 225 | 490 | 40 | | | | | | |
| | | Max. | | | | | | | | | |
| Temperature °C 20 | Spec. N°. Probe Nr. Pro N°. | 1 | 324 | 369 | 601 | 48 | 51 | 73 | 170 | | |
| | | | | | | | | | | | |
| | 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 | | |
| | 0,018 | 0,68 | 1,63 | 0,033 | 0,028 | 17,15 | 2,01 | 11,05 | 0,36 | 0,0210 | 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 Spektrosk Verwechslungspr O.K. Antimezcla | | Grain Size Korngröße 7-8 ASTM E-112-13 Tamaño de grano | | | | | |
| Remarks - Bemerkungen - Observaciones | | | | | | | | | | | |
| IC test acc./IK prüfung nach ASTM A 262 E.15. OK 100% US test/US prüfung. OK | | | | | | | | | | EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. | |
| F14401 1/4" BSPP C/S X 1/2" NPT M/M ADAPTOR 10K 316L | | | | | | | | | | Works Inspector Der Werkssachverständige Inspector de fábrica | |

375023 - 375028