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Quality Management System Approved CERT. Nº SGI 6000360

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 - Werksachverständiger
Sello del Inspector



| | | | | | | | | | | | |
|--|-----------------------------------|--|---|---|-------------------------|--|--------|--------------------------|--|--------|------|
| Certificate type - APZ Nach Certificado tipo EN 10204/3.1 | | Certificate nº - Prüf-Nr Certificado nº 136373 | | Date - Datum - Fecha 17 - 12 - 2012 | | | | | | | |
| Our order Nº Werks - Nr 500374 Nº de Referencia | | Heat Schmelze 343269 Colada | | Your order Nº Bestell - Nr OL 5367 Pedido Nº | | | | | | | |
| Steel Grade Werkstoff 316-S-11 AV Calidad | | | According to Entsprechend BS 970:PART 3:1991. Corresponde | | | | | | | | |
| Shape and Size - Gegenstand Perfil y dimensión ROUND 25 mm | | Tolerance - Toleranz Tolerancia h 10 /ISO 286-1 | | Bundles Bunde 4 Bultos | Bars Stäbe Barras | | | | | | |
| Weight Gewicht 2330 Kg Peso | | | | | | | | | | | |
| Requirements - Anforderungen - Exigencias | | | | | | | | | | | |
| EN 10.088-3.2005. EN 10.272-2007. ASTM A 182 / A 182M-11a. ASTM A 479 / A 479M-11. ASTM A 276-10. ASME SA 479 / SA 479M-11a. NACE MR-0175-2003/ISO 15156-3 2009. SAE AMS 5653F-02. 316S31AV-1.4404-1.4401-TP.316L-TP.316. PED 97/23/EC, Annex I, Parag.4.3/DGR 97/23/EG | | | Anhang I Bsatz 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-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 / Kerschschlag / Resiliencia ISO V Jules | | |
| RD. 10,00 mm. | | Min. | 190 | 225 | 490 | 40 | | | | | |
| | | Max. | | | | | | | | | |
| Temperature °C 20 | Spec. Nº. Probe Nr. Pro Nº. | 1 | 321 | 357 | 589 | 49 | | 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 | | |
| | 0,025 | 0,49 | 1,72 | 0,033 | 0,029 | 17,00 | 2,05 | 11,20 | 0,39 | 0,0315 | 0,21 |
| Visual and dimensional inspection Besichtigung und Ausmessung O.K. Control visual y dimensional | | | Radioactivity inspection Radioaktivitätskontrolle O.K. Control de Radioactividad | | | Anti-mixing test Spektroskop Verwechslungspr O.K. Antimezcla | | | Grain Size Korngröße Tamaño de grano | | |
| Remarks - Bemerkungen - Observaciones | | | | | | | | | | | |
| IC test acc./IK prüfung nach ASTM A 262 E.02. OK 100% US test/US prüfung. OK | | | | | | FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL | | | EDV / EDP Acc. EN 10.204 Alfredo Molina Certification Mng. | | |
| F9860 9/16" JIC SWIVEL x SWIVEL x MALE BRANCH TEE 10K 316L | | | | | | | | | Works Inspector Der Werksachverständige Inspector de fábrica | | |