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

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
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ACEROS INOXIDABLES
OLARRA

OLARRA U.K. LTD.
FOREST PARK - CLEOBURY MORTIMER
NR KIDDERMINSTER - DY 149BD - 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° | | 262833 | | Date - Datum - Fecha | | 19 - 02 - 2016 | |
| Our order N° Werks - Nr N° de Referencia | | 587188 | | Heat Schmelze Colada | | 403717 | | Your order N° Bestell - Nr Pedido N° | | OL6987 | |
| Steel Grade Werkstoff Calidad | | 316-S-11 AV | | According to Entsprechend Corresponde | | BS 970:PART 3:1991. | | | | | |
| Shape and Size - Gegenstand Perfil y dimensión | | ROUND 57,15 mm | | Tolerance - Toleranz Tolerancia | | k 12 /ISO 286-1 /10060 | | Bundles Bunde Bultos | | 6 Stäbe Barras | |
| | | | | | | | | Weight Gewicht Peso | | 3394 Kg | |
| Requirements - Anforderungen - Exigencias | | | | | | | | | | | |
| EN 10.088-3.2014. | | | | PED 97/23/EC, Annex I, Parag.4.3/DGR 97/23/EG | | | | | | | |
| EN 10.272-2007. | | | | Anhang I Absatz 4.3 Certificate/Zertifikat Nr. 348/2008/MUC | | | | | | | |
| ASTM A 182 / A 182M-15. | | | | | | | | | | | |
| ASTM A 479 / A 479M-15. | | | | | | | | | | | |
| ASTM A 276-15. | | | | | | | | | | | |
| ASME SA 479 / SA 479M-13 | | | | | | | | | | | |
| NACE MR-0175/ISO 15156-3 2009. | | | | | | | | | | | |
| SAE AMS 5653H-12. | | | | | | | | | | | |
| NORSOK M-630 and MDS S01. | | | | | | | | | | | |
| 316S31AV-1.4404-1.4401-Type 316-Type 316L. | | | | | | | | | | | |
| 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/Hiertemple-Turned/Drehen/Torneado- | | | | | | | | | | | |
| Test results - Ergebnis der Prüfungen - Resultados de los ensayos | | | | | | | | | | | |
| Dimension of Specimen Abmessungen des Probestabes Medida de las probetas | | Rp0.2% | Rp 1% | Rm | A | Z | Hardness | Impact test / Kernschlag / Resiliencia | | | |
| | | N/mm2 | N/mm2 | N/mm2 | %L 5D | %L 4D | Härte | ISO V Jules | | | |
| | | MPA | MPA | MPA | | | HBw | | | | |
| RD. 10,00 mm. | | Min. | 190 | 225 | 490 | 40 | | | | | |
| | | Max. | | | | | | | | | |
| Temperature °C | Spec. N° | 1 | 269 | 306 | 564 | 53 | 56 | 74 | 156 | | |
| 20 | Probe Nr. | | | | | | | | | | |
| | Pro. N° | | | | | | | | | | |
| 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 | 0,47 | 1,73 | 0,037 | 0,027 | 17,10 | 2,00 | 11,00 | 0,44 | 0,0200 | 0,15 |
| Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional | | O.K. | | Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad | | O.K. | | Antimixing test Spektrosk Verwechslungspr Antimezcla | | O.K. | |
| | | | | | | | | | | Grain Size Korngröße Tamaño de grano | |
| Remarks - Bemerkungen - Observaciones | | | | | | | | | | | |
| IC test acc./IK prüfung nach ASTM A 262 E.13. OK | | | | | | | | | | EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. | |
| F12568 1/2" NPT M/F FXD 90° ELBOW 10K 316L | | | | | | | | | | Works Inspector Der Werkssachverständige Inspector de fábrica | |