

Larrondo LOIU (VIZCAYA) España
P.O. Box 1.323/48080 Bilbao
Tel. 34-(4) 4 71 13 00
Fax.34-(4) 4 53 46 36

Management Systems
Certified by
LRQA
ISO 9001 / SGI 6000368
ISO 14001 / SGI 1870678

ACEROS INOXIDABLES

OLARRA

OLARRA U.K. LTD.
FOREST PARK - CLEOBURY MORTIMER
NR KIDDERMINSTER - DY149BD - ENGLAND

Trade Mark - Zeichen des Lieferwerkes
Anagrama del suministrador



Works Inspector Stamp - Werkssachverständiger
Sello del Inspector

3

| | | | | | |
|---|--------------|--|--------|----------------------|----------------|
| Certificate type - APZ Nach Certificado tipo | EN 10204/3.1 | Certificate n° - Prüf-Nr Certificado n° | 231650 | Date - Datum - Fecha | 07 - 05 - 2015 |
|---|--------------|--|--------|----------------------|----------------|

| | | | | | |
|--|--------|----------------------------|--------|--|--------|
| Our order N° Werks - Nr N° de Referencia | 570917 | Heat Schmelze Colada | 390260 | Your order N° Bestell - Nr Pedido N° | OL6704 |
|--|--------|----------------------------|--------|--|--------|

| | | | |
|-------------------------------------|-------------|---|---------------------|
| 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 25,4 mm | Tolerance - Toleranz Tolerancia k 12 /ISO 286-1 /10060 | Bundles Bunde Bultos | 2 | Bars Stäbe Barras | | Weight Gewicht Peso | 1041 Kg |
|--|--|----------------------------|---|-------------------------|--|---------------------------|---------|

Requirements - Anforderungen - Exigencias

| | |
|---|--|
| EN 10.088-3.2014. EN 10.272-2007. ASTM A 182 / A 182M-14a. ASTM A 479 / A 479M-14. ASTM A 276-13a. ASME SA 479 / SA 479M-13 NACE MR-0175-2003/ISO 15156-3 2009. SAE AMS 5653H-12. NORSOK M-630 and MDS S01. 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 E.A.F. / A.O.D. | Heat treatment / Wärmebehandlung / Tratamiento térmico 1060C 4H/Std WATER/WASSER/AGUA |
|--|--|

Solution annealed/Abgeschreckt/Hipertemple-Turned/Drehen/Torneado-

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 | 333 | 387 | 599 | 49 | 52 | 73 | 179 |

| | 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 | | |
| | 0,021 | 0,41 | 1,79 | 0,034 | 0,028 | 17,05 | 2,02 | 11,00 | 0,57 | 0,0260 | 0,20 |

| | | | | | | |
|--|------|---|------|--|------|--|
| 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 Antimezclaje | O.K. | Grain Size Korngröße Tamaño de grano |
|--|------|---|------|--|------|--|

Remarks - Bemerkungen - Observaciones

IC test acc./IK prüfung nach ASTM A 262 E.13. OK

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

F10564
3/4" Medium Pressure Plug

EDV / EDP
Acc. EN 10.204
Alfredo Molina
Certification
Mng.

Works Inspector
Der Werkssachverständige
Inspector de fábrica