



Larrondo LOIU (VIZCAYA) España  
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Management Systems  
Certified by  
LRQA  
ISO 9001 / SGI 6000360  
ISO 14001 / SGI 1870678

ACEROS INOXIDABLES

**OLARRA**

CANADIAN SPECIALTY METALS  
81 STEINWAY BLVD.  
ETOBICOKE-ONTARIO M9W 6H6 - CANADA

Trade Mark - Zeichen des Lieferwerkes  
Anagrama del suministrador   
Works Inspector Stamp - Werksachverständiger  
Sello del Inspector 

|   |   |   |  |   |  |        |                          |   |      |  |      |
|---|---|---|--|---|--|--------|--------------------------|---|------|--|------|
| Certificate type - APZ Nach<br>Certificado tipo <b>EN 10204/3.1</b>   |   | Certificate n° - Prüf-Nr<br>Certificado n° <b>376656</b>  |  | Date - Datum - Fecha<br><b>28 - 01 - 2019</b> |  |        |                          |   |      |  |      |
| Our order N°<br>Werks - Nr <b>680581</b><br>N° de Referencia  | Heat<br>Schmelze <b>471029</b><br>Colada  | Your order N°<br>Bestell - Nr <b>P044924-ED</b><br>Pedido N°                                    |  |   |  |        |                          |   |      |  |      |
| Steel Grade<br>Werkstoff <b>AISI-304-L MECAMAX</b><br>Calidad   |   | According to<br>Entsprechend <b>ASTM A 479 / A 479M-17.</b><br>Corresponde                      |  |   |  |        |                          |   |      |  |      |
| Shape and Size - Gegenstad<br>Perfil y dimensión<br><b>ROUND 3"3/4</b>  |   | Tolerance - Toleranz<br>Tolerancia<br><b>ASTM A 484 /TB.7</b>                                   |  | Bundles<br>Bunde <b>2</b><br>Bultos           | Bars<br>Stäbe<br>Barras                    |        |                          |   |      |  |      |
|   |   |   |  | Weight<br>Gewicht <b>2105 Lbs</b><br>Peso     |  |        |                          |   |      |  |      |
| Requirements - Anforderungen - Exigencias   |   |   |  |   |  |        |                          |   |      |  |      |
| ASME SA 479 / SA 479M-15<br>ASTM A 276/A 276M-17.<br>ASTM A 182/A 182M-16.<br>ASME SA 182 / SA 182M-15<br>ASTM A 193/A 193M-16.B8 CLASS.1.<br>ASME SA 193/SA 193M-15 B8 CLASS.1.<br>SAE AMS 5647J-11.<br>SAE AMS 5639H-02.<br>NACE MR-0175/ISO 15156-3 2015.<br>AMS QQS 763D-15 COND.A. |   |   | EN 10.088-3.2014.<br>EN 10.272-2016.<br>Type 304/304L - 1.4301/1.4307.<br>PED 2014/68/EU, Annex I, Parag.4.3/DGR 2014/68/EU<br>Anhang I Absatz 4.3 Certificate/Zertifikat Nr. 348/2008/MUC |   |  |        |                          |   |      |  |      |
| Melting process / Erschmelzungsart / Proceso de Fusión<br><b>E.A.F. / A.O.D.</b>  |   | Heat treatment / Wärmebehandlung / Tratamiento térmico<br><b>1050C 4H/Std WATER/WASSER/AGUA</b> |  |   |  |        |                          |   |      |  |      |
| Solution annealed/Abgeschreckt/Hipertemple-Turned/Drehen/Torneado-Polished/Poliert/Pulido-  |   |   |  |   |  |        |                          |   |      |  |      |
| Test results - Ergebnis der Prüfungen - Resultados de los ensayos   |   |   |  |   |  |        |                          |   |      |  |      |
| Dimension of Specimen<br>Abmessungen des Probestabes<br>Medida de las probetas  | Rp0,2%<br>KSI   | Rp 1%<br>KSI  | Rm<br>KSI  | A<br>%L 5D                                    | A<br>%L 4D                                 | Z<br>% | Hardness<br>Härte<br>HBw | Impact test / Kerschschlag / Resiliencia<br>ISO V ft ib |      |  |      |
| RD. 12,50 mm.   | Min. 25   |   | 70   |   | 40   | 50     |                          |   |      |  |      |
|   | Max.  |   |  |   |  |        |                          |   |      |  |      |
| Temperature °C<br>20  | Spec. N°<br>Probe Nr.<br>Pro N° 1   | 43  | 49   | 86  |  | 57     | 75                       | 163   |      |  |      |
|   | C   | Si  | Mn   | P   | S  | Cr     | Mo                       | Ni  | Cu   | N  | Co   |
| Min.  |   |   |  |   |  | 18,00  |                          | 8,00  |      |  |      |
| Max.  | 0,030   | 1,00  | 2,00   | 0,045   | 0,030                                      | 20,00  |                          | 12,00   |      | 0,1000   |      |
|   | 0,022   | 0,32  | 1,44   | 0,037   | 0,026                                      | 18,06  | 0,40                     | 8,06  | 0,48 | 0,0870   | 0,15 |
| Visual and dimensional inspection<br>Besichtigung und Ausmessung<br>Control visual y dimensional  | Radioactivity inspection<br>Radioaktivitätskontrolle<br>Control de Radioactividad |   | Antimixing test<br>Spektrosk Verwechslungspr<br>Antimezcla   |   | Grain Size<br>Korngröße<br>Tamaño de grano |        |                          |   |      |  |      |
| O.K.  |   | O.K.  |  | O.K.  |  |        |                          |   |      |  |      |
| Remarks - Bemerkungen - Observaciones   |   |   |  |   |  |        |                          |   |      |  |      |
| Free From Mercury contamination/Quecksilberfreiheit.<br>No weld repair.<br>Chemical composition according to MIL-S-7720A.   |   |   |  |   |  |        |                          |   |      | EDV / EDP<br>Acc. EN 10.204<br>Marian Tejado<br>Quality Mng.<br><br>Works Inspector<br>Der Werksachverständige<br>Inspector de fábrica |      |
| We hereby certify that material described herein complies with the requirements agreed on the order.  |   |   |  |   |  |        |                          |   |      |  |      |

Firmado digitalmente por / Signed digitally by:  
ACEROS INOXIDABLES OLARRA SA - CIF A43663546  
Fecha / Date: 11-04-2019 12:26

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*MS*