



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS  
No. FAB058119MI**

**This is to certify** that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

<i>Description</i>	<b>Welded stainless steel pipes and tubes</b>
<i>Type</i>	<b>Austenitic Stainless Steel - O.D. max 60.3 mm - W.T. max 4.0 mm; Duplex Stainless Steel - O.D. max 60.3 mm - W.T. max 3.6 mm;</b>
<i>Manufacturer</i>	<b>A.D. TUBI INOSSIDABILI SPA</b>
<i>Place of manufacture</i>	<b>VIA ADIGE, 2 22070 Casnate Con Bernate (CO) ITALY</b>
<i>Reference standards</i>	<b>RINA Rules for Type Approval products, equipment and machinery</b>

*Issued in* **Milano** on **September 18, 2019**. *This Certificate is valid until* **September 6, 2024**

RINA Services S.p.A.  
*Paolo Chiappini*

This certificate consists of this page and 1 enclosure



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**Austenitic Stainless Steel - O.D. max 60.3 mm - W.T. max 4.0 mm**

**Duplex Stainless Steel - O.D. max 60.3 mm - W.T. max 3.6 mm**

**APPROVAL CONDITIONS**

**Steel Types:**

Welded Austenitic Stainless Tubes According to ASTM 249 TP 304/304L - 316/316L and EN 10217-7 1.4301-1, 1.4306, 1.4307 / 1.4401-1.4404;

**Product Making Princess:**

Automatic Welding bu TIG Without Filler Metal Qualified According to ASME and EN15614-1 Std.  
Automatic Welding by Laser Beam.

**Heat Treatment Conditions:**

Solution Annealing at 1050 - 1150 ° C.

**NDE Welding Seam:**

In line Eddy Current According to EN10893-2.

**Survey Conditions:**

Tubes to be in compliance, in all respect, with the requirements specified in RINA Rules Part D Ch.2 Sect.2 and applicable Recognized Std.



**General conditions for the approval**

- The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.
- RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.

**Milano September 18, 2019**