

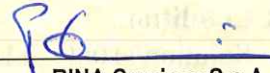


**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS
No. FAB079418MI**

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>	Welded stainless steel pipes and tubes
<i>Type</i>	Austenitic and Duplex
<i>Manufacturer</i>	ILTA INOX S.P.A.
<i>Place of manufacture</i>	STRADA STATALE 45 BIS 26010 Robecco D'Oglio (CR) ITALY
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **Milano** on **December 10, 2018**. *This Certificate is valid until* **December 1, 2023**


RINA Services S.p.A.
Paolo Chiappini

This certificate consists of this page and 1 enclosure



CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS

No. FAB079418MI
Enclosure - Page 1 of 1
Austenitic and Duplex

APPROVAL CONDITIONS

Steel Type:

(Stainless Steel) ASTM A312 Tp 316L - ASTM A249 Tp 316L - EN10217 Part 7 1.4404
(Duplex) ASTM 789 - UNS31803 - EN 10217 Part 7 1.4462

Size Range:

O.D. from 6 to 120 mm
W.Thk from 0.75 to 4 mm

Product Making Process:

Laser Equipment according to Manufr Proc.N. GQ 751.02 in force

Heat Treatment Condition:

Bright Annealing Solution (1050 - 1100 °C)

NDE on Welded Seam:

Eddy Current in lieu of Hydraulic Test according to Manufr Proc.N. GQ 824.03 in force

Survey Condition:

the subject material to be in compliance, in all respects, with the requirements specified in RINA Rules Part D Ch.2 Sect.2 and shall be tested accordingly.

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 December 10, 2018