



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS**  
No. FAB013821XI

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>	Seamless steel tubes and pipes in austenitic and austenitic-ferritic (duplex) stainless steel
<i>Type</i>	Manufacturing of Seamless Steel tubes and Pipes in austenitic and austenitic FERRITIC(DUPLEX) STAINLESS STEEL GRADE- 304 304L 316 316L 321 347 AND UNS 31803 SIZE RANG- OD- 65MM TO 135MM WALL THICKNESS- 5MM TO 20MM
<i>Applicant</i>	MAXIM TUBES COMPANY PVT LTD Survey No.105/106, Near 66KV Sub Station, Pansar Road Ahmedabad-Mehsana Highway, Chhatral, Dist - Ga 382729 Ahmedabad (Gujarat-24) INDIA
<i>Manufacturer</i>	MAXIM TUBES COMPANY PVT LTD
<i>Place of manufacture</i>	Survey No.105/106, Near 66KV Sub Station, Pansar Road Ahmedabad-Mehsana Highway, Chhatral, Dist - Ga 382729 Ahmedabad (Gujarat-24) INDIA
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials
<i>Reference documents</i>	-

Issued in RINA India Marine on March 12, 2021. This Certificate is valid until February 20, 2024



RINA Services S.p.A.  
Prasad Palakil Mavilavalappil

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Head of India Marine  
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This certificate consists of this page and 1 enclosure

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Enclosure - Page 1 of 1

**Manufacturing of Seamless Steel tubes and Pipes in austenitic and austenitic**

**APPROVAL CONDITIONS**

**Size range**

Outside diameter: 65 to 135 mm ( Hot Piercing) 10 to 323.9 mm ( Cold process)

Wall Thickness: 5 to 20 mm ( Hot Piercing) 0.5 to 12.7 mm ( Cold Process)

**Manufacturing process : Hot Piercing / Cold Pilgering and Cold draw**

**Heat treatment : Solution annealing to minimum temperatures as below for grades and quenching by cooling rapidly with water**

<b>Grades</b>	<b>Minimum Temperature</b>
304, 304L, 316, 316L	1040 Deg C
321, 347	1040-1065 Deg C
UNS 31803	1020-1100 Deg C

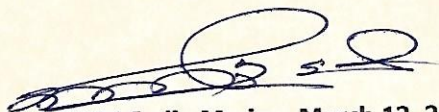
**Survey conditions:**

The pipes are to be in compliance in all respects with the requirements specified in Part D Ch 2 Sec2 of the RINA Rules and are to 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.



**RINA India Marine March 12, 2021**

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