




**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS**

**No. FAB042622XP**

**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>Carbon, Carbon-manganese and low alloy steel Ingots</b>
<i>Type</i>	<b>Maximum weight 14000 kg</b>
<i>Manufacturer</i>	<b>ALCHEMIA S.A. - ALCHEMIA S.A. Oddzial Stalownia Batory</b>
<i>Place of manufacture</i>	<b>w Chorzowie ul. Dyrekcyjna 6 41-506 Chorzow POLAND</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

*Issued in* **RINA Poland Marine** on **April 12, 2022**. *This Certificate is valid until* **April 12, 2027**

 Kinga Zielińska  
Marine Surveyor  
RINA Services S.p.A.



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This certificate consists of this page and 1 enclosure





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Maximum weight 14000kg

**APPROVAL CONDITIONS**

**STEEL MAKING:** ELECTRIC ARC FURNACE

**METALLURGY:** LINEAR HEARTH FURNACE (LHF), VACUUM ARC DEGASSING (VAD) PROCESSES

**STEEL TYPES:** CARBON, CARBON-MANGANESE AND LOW ALLOY STEELS

**HEAT TREATMENT:** STRESS RELIEF

**SURVEY CONDITION:** ALL INGOTS TO BE USED FOR CONSTRUCTION OF SHIPS CLASSED WITH RINA SHALL MEET THE REQUIREMENTS OF THE RINA RULES 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.

**RINA Poland Marine**

**April 12, 2022**

RINA Services S.p.A.  
Via Corsica, 12 - 16128 Genova  
Tel +39 010 53851  
Fax +39 010 5351000

