



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. FAB020317XP/001

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>	Steel ingots
<i>Type</i>	Carbon, carbon-manganese, low alloy, austenitic and martensitic steels. Maximum weight of ingot 21000 kg
<i>Manufacturer</i>	ALCHEMIA S.A. - ALCHEMIA S.A. Oddzial Stalownia Batory
<i>Place of manufacture</i>	w Chorzowie ul. Dyrekcyjna 6 41-506 Chorzow POLAND
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials
<i>Reference documents</i>	PN, EN, DIN, ASME, SEW, BS, DEF-STAN, JIS

Issued in **GDANSK** on **April 18, 2017**. This Certificate is valid until **April 11, 2022**



RINA
A. Łobodziński
Gdańsk Marine Manager
Jurisdiction: Poland, Slovakia, Czech Republic

RINA Services S.p.A.
Adam Konrad Lobodzinski

This certificate consists of this page and 1 enclosure



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APPROVAL CONDITIONS

- **Steel making:** Electric arc furnace
- **Metallurgy:** Linear Hearth Furnace (LHF), Vacuum Arc Degassing (VAD) processes
- **Steel types:** Carbon, carbon-manganese, low alloy, austenitic and martensitic steels.
- **Heat treatment:** Stress relief
- **Survey conditions:** all ingots to be used for equipment fabrication and 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.

GDANSK April 18, 2017

