



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS  
No. 2022XT011829**

**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>Steel and Iron casting</b>
<i>Type</i>	<b>CARBON - CARBON MANGANESE- ALLOY STEEL AND IRON CASTINGS MAX. WEIGHT 35.000 KG CARBON - CARBON MANGANESE- ALLOY STEEL AND IRON CASTINGS MAX. WEIGHT 35.000 KG</b>
<i>Manufacturer</i>	<b>AKDAS DOKUM SANAYI VE TICARET A.S.</b>
<i>Place of manufacture</i>	<b>SINCAN ORGANIZE SANAYI BOLGESI, BATIHUN CAD., NO.1 SINCAN, ANKARA TURKEY</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

*Issued in* **ISTANBUL** on **March 30, 2023**. *This Certificate is valid until* **March 5, 2028**



**Devrim Kacar**  
Marine Surveyor  
RINA Istanbul

13415

**RINA Services S.p.A.**  
**Devrim Kacar**

This certificate consists of this page and 1 enclosure



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS**

No. 2022XT011829

Enclosure - Page 1 of 1

**APPROVAL CONDITIONS**

**Steel making process:** high frequency induction furnace

**Grades:**

- C and C-Mn and alloy steels in compliance with the RINA Rules or equivalent recognized standards.
- Grey iron castings with minimum tensile strength not lower than 200 N/mm<sup>2</sup>.
- Ordinary nodular graphite iron castings with minimum tensile strength not higher than 500 N/mm<sup>2</sup>.

**Heat treatment:** normalizing, normalizing and tempering, as applicable.

**Survey conditions:** all castings to be used for construction of ships classed with RINA are to be in compliance with the requirements 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.

**ISTANBUL March 30, 2023**