



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. **FAB109424XG**

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>	Castings
<i>Type</i>	Grey Iron and Spheroidal Graphite Iron Casting.
<i>Manufacturer</i>	HegerFerrit GmbH
<i>Place of manufacture</i>	Junkers-Straße 4 DE-67681 Sembach GERMANY
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **Hamburg** on **May 1, 2024**. *This Certificate is valid until* **April 30, 2029**



Matthias Steinbusch

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



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Grey Iron and Spheroidal Graphite Iron Casting.

APPROVAL CONDITIONS

- The chemical condition and the mechanical properties are to be in accordance with the RINA requirements or equivalent recognized standards.
- Iron types : Grey Iron Casting, tensile strength between 200 and 350 N/mm²
Ductile Iron Casting, tensile strength between 400 and 700 N/mm²
- Products max. weight : 30,000 kg
- Survey conditions: all casting to be used for construction of machinery components classed with RINA shall meet the requirements of the RINA Rules and shall be tested accordingly.
- Heat treatment: tempering or stress relieving heat treatment, if requested for elevated temperature service applications. They are to be carried out after any refining heat treatment and before machining.
- Welding repairs are a part of a additional individual approval.
- RINA has to be informed about any changes in the companies structures which affect the quality of the product.

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.

Hamburg 01/05/2024

