

Approval Certificate for Manufacturing Process

[Semi-Finished Products, Steel Castings and Iron Castings]



Initial Approval 28th April, 2021

Manufacturer Silbitz Guss GmbH
Dr.-Maruschky-Str. 2, 07613 Silbitz, Germany

Product Description Semi-Finished Products
Steel Castings
Iron Castings

* See "Appendix 1"

Approval Condition

1. For semi-finished products, Individual Product Certification is not required.
2. For castings, Individual Product Certification is required unless otherwise specifically exempted.

THIS IS TO CERTIFY that the manufacturing process for the above mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 2, Ch. 1, Art. 101, 506 & 507 of the Rules for Classification of Steel Ships.

This Certificate is valid until 27th April, 2026

Issued at Busan, Korea on 28th April, 2021



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME21010996983) and certificate No.(HMB42517-SC001).



KOREAN REGISTER

**General Manager of
Marine & Ocean Equipment Team**

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 28th April, 2021

◎ Semi-Finished Products

- Product form : Ingots
- Type : Austenitic stainless steel (e.g. 1.3964, 1.3974, 1.4404, 1.4429, 1.4435)
22Cr duplex stainless steel
25Cr duplex stainless steel
Martensitic stainless steel (e.g. 1.4418)
- Melting furnace: Electric arc furnace
Vacuum decarburization
Vacuum oxygen decarburization
- Casting method : Ingot casting
- Mass : Max. 9 000 kg / piece
- Intended for : Forging

◎ Steel Castings

- Type : Carbon steel
Low alloy steel
- Melting furnace: Electric arc furnace
Vacuum decarburization
Vacuum oxygen decarburization
- Casting method : Sand casting
- Mass : Max. 9 000 kg / piece

◎ Iron Castings

- Type : Grey iron
Spheroidal or nodular graphite iron
Austenitic cast iron (e.g. EN 13835, ISO 2892)
- Melting furnace: Electric induction furnace
- Casting method : Sand casting
- Mass : Max. 10 000 kg / piece < End of the certificate >