



APPROVAL CERTIFICATE FOR MANUFACTURING PROCESS

Certificate No. : HMB37207-SF001 **Initial Approval** : 27th February, 2018
Product : Semi-Finished Products
Manufacturer : Deutsche Edelstahlwerke Specialty Steel GmbH & Co.KG (Witten)
Austr. 4, 58452 Witten, Germany

Product Description: Semi-Finished Stainless Steel Products

- Types : Ingots, billets, rolled bars, forged bars
- Grades : 1.4542, 1.4418, 1.4571, 1.4462 acc. to EN 10088
or equivalent grades
- Steel making : Electric arc furnace
- Casting process : Ingot casting, continuous casting
- Forging process : Radial forging
- Mass : Max. 58 000 kg for ingots
- Dimension : Max. 475 x 340 mm for billets
- Diameter : Max. 230 mm for rolled bars
Max. 250 mm for forged bars

Approval Condition: Individual Product Certification is not required.

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 and entered in the "List of Approved Manufacturer and Type Approved Equipment".

Pt. 2, Ch. 1, Art. 101 & 102 of the Rules for Classification of Steel Ships.

This Certificate is valid until 26th February, 2023

Issued at Busan, Korea on 27th February, 2018



KOREAN REGISTER OF SHIPPING

*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.