



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS**

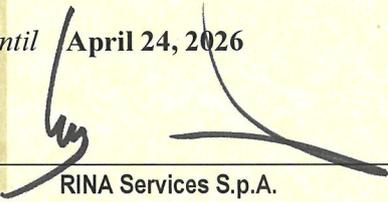
**No. FAB031721PU/001**

**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>	<b>Steel ingots</b>
<i>Type</i>	<b>Carbon carbon manganese steel ingot for forgings</b>
<i>Manufacturer</i>	<b>SEAH CHANGWON INTEGRATED SPECIAL STEEL CORPORATION</b>
<i>Place of manufacture</i>	<b>147 JEOKHYEON-RO (SHINCHON-DONG), SEONGSAN-GU 51708 CHANGWON-SI, GYEONGNAM REPUBLIC OF KOREA</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

Issued in **BUSAN** on **April 12, 2021**. This Certificate is valid until **April 24, 2026**



  
RINA Services S.p.A.  
**Dong-Hun Lee**

This certificate consists of this page and 1 enclosure



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**Carbon carbon manganese steel ingot for forgings**

**APPROVAL CONDITIONS**

**Steel making process:** electric arc furnace & ladle furnace, vacuum degassing/Argon-oxygen decarburization ingot casting

**Max. weight :** 200 ton

**Delivery condition:** as casted

**Survey conditions:** the final forgings 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.



A handwritten signature in black ink, appearing to be 'S', is written next to the RINA logo.

**BUSAN April 12, 2021**