



Approval No. ST191RO

Certificate No. TA24312E

APPROVAL OF MANUFACTURING PROCESS

This is to certify that

Wuhan Iron & Steel Co., Ltd.
Qingshan District, Wuhan, Hubei Provinve, China

has been approved for the manufacturing process of undermentioned materials by the NIPPON KAIJI KYOKAI in accordance with the requirements of 1.2, Part K of the Society's "Rules for the Survey and Construction of Steel Ships" and Chapter 1, Part 1 of the Society's "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use".

MATERIALS : Rolled Steels for Hull

The details of approval conditions to which this approval applies are given in the PARTICULARS OF APPROVAL listed in the reverse of this certificate.

The products for the ships classed with the Society are to be manufactured, tested and inspected in compliance with the Rules.

This certificate is valid from 13 March 2024 until 12 March 2029.

Issued at Tokyo on 13 March 2024.


Y. Takao
General Manager
Material and Equipment Department





No. : TA24314E

Date : 13 March 2024

PARTICULAR OF APPROVAL

Approval Conditions for Manufacturing Process of Rolled Steel for Hull

- | | |
|----------------------------|--|
| 1. Manufacturer | : Wuhan Iron & Steel Co., Ltd. |
| 2. Kind of Product | : Steel Coils |
| 3. Grade | : KA, KB, KD, KA32, KA36, KD32, KD36,
KE32 and KE36 |
| 4. Deoxidation Practice | : See Table |
| 5. Grain Refining Elements | : See Table |
| 6. Max. Thickness | : See Table |
| 7. Condition of Supply | : See Table |
| 8. Steel Making Process | : Basic Oxygen Furnace |
| 9. Casting Process | : Continuous Casting |

10. Remark:

In the case where the steel coils manufactured by Wuhan Iron & Steel Co., Ltd. are uncoiled by other manufacturer, test certificates of steel coils are to include the description that the steel coils are to be uncoiled and cut by a manufacturer approved by NIPPON KAIJI KYOKAI in terms of the uncoiling and cutting processes in accordance with 3.1.1, Chapter 3, Part K of the NK Rules and K3.1.1., K3, Part K of the NK Survey Guidance.

No. : TA24314E
Date : 13 March 2024

Table Part of Approval Conditions

Grade	Deoxidation Practice	Grain Refining Elements	Max. Thickness (mm)	Condition of Supply
KA KB	Killed	Not Applicable	22	CR
KD	Fine-grained Killed	Al	22	
KA32 KA36 KD32 KD36 KE32 KE36	Fine-grained Killed	Al-Nb	20	



Y. Takao
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