



No. : TA23647E

Date : 12 June 2023

PARTICULARS OF APPROVAL

Approval Conditions for Manufacturing Process of Rolled Steels for Hull

- | | |
|----------------------------|---|
| 1. Manufacturer | : Hunan Valin Lianyuan Iron & Steel Co., Ltd. |
| 2. Kind of Product | : Steel Coils |
| 3. Grade | : KA, KB, KD, KA36 and KD36 |
| 4. Deoxidation Practice | : Killed |
| 5. Grain Refining Elements | : See Table |
| 6. Max. Thickness | : See Table |
| 7. Condition of Supply | : TMCP (AcC) |
| 8. Steel Making Process | : Basic oxygen furnace |
| 9. Casting Process | : Continuous Casting |
| 10. Remarks: | |

In the case where the steel coils manufactured by Hunan Valin Lianyuan 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.

(to be cont.)

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[illegible]

Grade	Grain Refining Elements	Max. Thickness (mm)
KA	Al	25
KB		
KD		
KA36	Al-Nb-Ti	20
KD36		

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Y. Takao

General Manager

Material and Equipment Department

