

Sidenor Aceros Especiales, SL, Reinosa Plant

Approval No. : CA25

Certificate No. : TA17686E

Date : 5 July 2017

Calle Alejandro de Calonge 1, 39200 Reinosa, Cantabria, Spain

Dear Sirs,

Approval of Manufacturing Process of Offshore Mooring Chain Accessories

We, Nippon Kaiji Kyokai, have recognized the manufacturing process of chain accessories being approved in accordance with the requirement in 3.2.5, Part L of the Rules under the following condition:

1. Manufacturer : Sidenor Aceros Especiales, SL, Reinosa Plant
2. Kind of Product : Forged raw materials for Grade R4 Chain Accessories
3. Deoxidation Practice : Fine-grained Killed
4. Grain Refining Elements : Al-V
5. Max. Dimension : 1353mm × 639mm
6. Condition of Supply : Annealing
7. Heat Treatment for Test Sample : QT
8. Steel Making Process : Electric Arc Furnace
9. Casting Process : Ingot Casting
10. Remarks : See the reverse side

(to be cont.)

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Remarks:

- 1) The individual users of this semi-finished product are to be approved by the Society for the manufacturing process of the specific grade of offshore mooring chain accessories which are manufactured with this semi-finished product.
- 2) Chemical composition is to comply with the requirements specified in Table 1 in addition to Part K of the NK Rules.

Table 1 Chemical Composition (%)

C	Si	Mn	P	S	Cu	Cr	Ni	Mo	Al	V	Ti	N

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

This certificate is valid from 5 July 2017 until 4 July 2022.

Issued at Tokyo on 5 July 2017.

Initial Approval Date : 5 July 2017

Yours faithfully,
 NIPPON KAIJI KYOKAI

H. Kobayashi

General Manager

Material and Equipment Department

