

Approval No. : CH25 / CA18
Certificate No. : TA15368E
Date : 1 May 2015

Remarks:

- (1) Round bars for chains manufactured by Jiangyin Xingcheng Special Steel Works Co., Ltd. are to be used (Steel making process: basic oxygen furnace).
- (2) Studs are not to be welded.
- (3) Raw materials for chain accessories manufactured by Jiangyin Xingcheng Special Steel Works Co., Ltd. are to be used (Steel making process: basic oxygen furnace).
- (4) Forging process and heat treatment process are to be conducted by Jingjiang Zhengmao Anchor Chain Accessories Co., Ltd. under the supervision of Qingdao Anchor Chain Co., Ltd. No. 1 Branch.
- (5) Round bars for chains manufactured by Jiangyin Xingcheng Special Steel Works Co., Ltd. are to be used (Steel making process: electric arc furnace).

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

This certificate is valid until 30 April 2020.
Issued at Tokyo on 1 May 2015.

Initial Approval Date : 1 May 2015

Yours faithfully,
NIPPON KAIJI KYOKAI



T. Imamura
General Manager

Material and Equipment Department

Qingdao Anchor Chain Co., Ltd. No. 1 Branch

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6 Lingshan Road, Lingshan Town, Jimo,
Qingdao City, Shandong Province, China

Dear Sirs,

**Approval of the Manufacturing Process of Offshore Mooring Chains and
Offshore Mooring Chain Accessories**

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

1. Manufacturer : Qingdao Anchor Chain Co., Ltd. No. 1 Branch
2. Products : Grade R3, R3S and R4 Chain Links and
Grade R3, R3S and R4 Chain Accessories
3. Supply Conditions : See the table below

Table: Supply Conditions

Kind	Products	Material	Manufacturing Process	Heat Treatment	Max. Nominal Diameter	Remarks
Grade R3 (with stud)	Common Link Enlarged Link End Link	KSBCR3	Flush butt welded	Quenched and tempered	152mm	(1),(2)
Grade R3 (studless)	Common Link Enlarged Link End Link	KSBCR3	Flush butt welded	Quenched and tempered	152mm	(1)
Grade R3	Kenter Shackle End Shackle Joining Shackle	KSFCR3	Forging	Quenched and tempered	147mm	(3),(4)
Grade R3S (with stud)	Common Link Enlarged Link End Link	KSBCR3S	Flush butt welded	Quenched and tempered	152mm	(1),(2)
Grade R3S (studless)	Common Link Enlarged Link End Link	KSBCR3S	Flush butt welded	Quenched and tempered	152mm	(1)
Grade R3S	Kenter Shackle End Shackle Joining Shackle	KSFCR3S	Forging	Quenched and tempered	147mm	(3),(4)
Grade R4 (with stud)	Common Link Enlarged Link End Link	KSBCR4	Flush butt welded	Quenched and tempered	147mm	(1),(2)
					107mm	(2),(5)
Grade R4 (studless)	Common Link Enlarged Link End Link	KSBCR4	Flush butt welded	Quenched and tempered	147mm	(1)
					107mm	(5)
Grade R4	Kenter Shackle End Shackle Joining Shackle	KSFCR4	Forging	Quenched and tempered	147mm	(3),(4)

(to be cont.)