



Approval No. ST42PI
Certificate No. TA19934E

APPROVAL OF MANUFACTURING PROCESS

This is to certify that

**YCP Co., Ltd.
Saha-Gu, Busan
Korea**

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 2, Part 1 of the Society's "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use".

MATERIALS : Steel Tubes for Boilers and Heat Exchangers

The details of the relevant approval conditions 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 28 May 2019 until 27 May 2024.
Issued at Tokyo on 28 June 2019.



H. Kobayashi
General Manager
Material and Equipment Department

No. : TA19935E

Date : 28 June 2019

PARTICULARS OF APPROVAL

Approval Condition for Manufacturing Process of Steel Tubes for Boilers and Heat Exchangers

1. Manufacturer : YCP Co., Ltd.
2. Symbol : KSTB33-S-C, KSTB35-S-C and KSTB42-S-C
3. Deoxidation Practice : Killed
4. Method of Manufacturing : Cold Finished Seamless Steel Tube
5. Dimension : Range of Outside Dia. : See Table
Range of Wall Thickness : See Table
6. Condition of Supply : Low Temperature Annealing
7. Welding Method : Not Applicable
8. Remark : Semi-finished products are to be supplied by the Society-approved manufacturers who are able to deliver the said semi-finished products with the specified chemical composition corresponding to the above materials approved in accordance with Chapter K1.2.1, Part K of the NK Survey Guidance.

Table Part of Approval Conditions

Symbol	Dimension	
	Range of Outside Dia (mm)	Range of Wall Thickness (mm)
KSTB33-S-C	4 ~ 65	1 ~ 6
KSTB35-S-C	4 ~ 65	1 ~ 2
KSTB42-S-C	4 ~ 65	1 ~ 2




H. Kobayashi
General Manager
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