DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00002K2**

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n	10	16	to	COPTITUE
	13	13	w	certify:

That

Inner Mongolia BaoTou Steel Union Co., Ltd. BaoTou, Inner Mongolia, China

is an approved manufacturer of **Steel Pipes and Fittings**

in accordance with

DNV GL rules for classification - Ships

and the following particulars:

Product Pipes

Application area Pipes for pressure systems,

Boiler and superheater tubes

Steel type Carbon and carbon-manganese,

Alloy

Manufacturing method
Max. outer diameter
Max. wall thickness
Heat treatment condition
Additional approval
Seamless
See page 2
See page 2
See page 2

conditions

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2019-08-16

for **DNV GL**

This Certificate is valid until 2022-08-31.

DNV GL local station: Tianjin

Approval Engineer: Stefan Röhr

Thorsten Lohmann Head of Section



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Job Id: **263.11-004562-2** Certificate No: **AMMM00002K2**

Particulars of the approval

Pipes for pressure systems

Steel type /grade ²⁾	Manufacturing method 1)	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	HFS	426	30	acc. to standard
Alloy	HFS	426	30	acc. to standard

Boiler and superheater tubes

Steel type /grade ³⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	HFS	426	30	acc. to standard
Alloy	HFS	426	30	acc. to standard

Remarks:

- 1) HFS: hot finished seamless
- Suitable pipe grades shall be selected from the following recognized standards: ISO 9329 Parts 1 and 2, ISO 9330 Parts 1 and 2, EN 10216 Parts 1 to 3, EN 10217 Parts 1 to 3, EN 10305 Part 1 and 2, ASTM A53, ASTM A106, ASTM A135, ASTM A335, JIS G3454, JIS G3455, JIS G3456 or JIS G3458
- Suitable pipe grades shall be selected from the following recognized standards: ISO 9329 Part 2, ISO 9330 Part 2, EN 10216 Part 2, EN 10217 Part 2, ASTM A178, ASTM A209, ASTM A210, ASTM A213, JIS G3461, JIS G3462 or JIS G3463

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