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DNV

# DET NORSKE VERITAS APPROVAL OF MANUFACTURER CERTIFICATE

CERTIFICATE No. AMM-4520

*This is to certify that*

**Wuxi Xuefeng Iron & Steel Co., Ltd.**

WUXI, JIANGSU, CHINA

*is an approved manufacturer of*

**STEELMAKING**

*in accordance with*

Det Norske Veritas' Rules for Classification Pt. 2

*and the following particulars:*

Product	Semis : Ingots, blooms and billets for forging, rolling or tube making stock
Steel types	Carbon and carbon-manganese, Alloy
Steelmaking	Electric arc furnace or Basic oxygen converter, Continuous casting or Ingot casting
Deoxidation	Killed

Place and date  
Høvik, 2010-01-12  
for DET NORSKE VERITAS AS

*Helge Drange*  
for Helge Drange  
Head of Section



Local Office  
DNV Nanjing

*This Certificate is valid until*  
2014-06-30

*Sastry*  
Sastry Yagnanna Kandukuri  
Surveyor

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In the provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as of its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



**APPROVAL CERTIFICATE FOR  
MANUFACTURING PROCESS**  
**제 조 법 승 인 증 서**

**Certificate No.** : SHI23848-SC001                      **Initial Approval** : 29th January, 2010.  
**Product** : Steel Ingots, Blooms and Billets  
**Manufacturer** : Wuxi Xuefeng Iron & Steel Co., Ltd.  
No. 600, West Shen'an Road, Wuxi City, Jiangsu Province, China

**Product Description** : Steel Ingots, Blooms and Billets  
- Grade : Carbon & low alloy steels for ingots,  
Carbon steels for blooms & billets  
- Steel making : Basic oxygen furnace(#1, 2, & 3 factory)  
- Casting process : Ingot & continuous casting  
- Ingot weight : Max. 23 tons  
- Bloom dimension : Max. 330 mm  
- Billet dimension : Max. 130 mm  
- Intended for : Raw materials for forgings, pipes, etc.

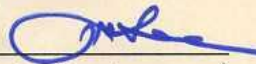
**Approval Condition** : Individual Product Certification is not required.

**THIS IS TO CERTIFY** that the manufacturing process for the above mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturer and Type Approved Equipment".

Pt 2, Ch 1, Art 102 of the Rules for Classification of Steel Ships.

This Certificate is valid until 28th January, 2015.  
Issued at Daejeon, Korea on 29th January, 2010.





( Lee Woon-ho )  
General Manager of  
Materials and Equipment Team

*Note :1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.  
2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.*



DNV

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APPROVAL OF MANUFACTURER  
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Deoxidation	Killed

*Place and date*  
Høvik, 2010-01-12  
for DET NORSKE VERITAS AS

*Helge Drange*  
for Helge Drange  
Head of Section



Local Office  
DNV Nanjing

*This Certificate is valid until*  
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*Sastry*  
Sastry Yagnanna Kandukuri  
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Certificate No. NKM-1021CF

**APPROVAL OF MANUFACTURING PROCESS**

*This is to certify that*

**Wuxi Xuefeng Iron & Steel Co., Ltd.  
Wuxi, Jiangsu  
China**

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

**MATERIALS** : Semi-finished Products for Carbon Steel Forging  
Semi-finished Products for Low-Alloy Steel Forging

**PROCESS** : Casting

On this effect, 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 until the 5th day of April, 2015.  
Issued at Tokyo on the 6th day of April, 2010.

Initial Approval Date : 6th April, 2010

127.6

H. Takano  
General Manager  
Material and Equipment Department





**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS**  
No. FAB040709SH

**This is to certify** that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

<i>Description</i>	<b>Semi-finished steel products</b>
<i>Type</i>	<b>Blooms; billets and ingots for C-Mn steel pipes and forgings</b>
<i>Manufacturer</i>	<b>WUXI XUEFENG IRON &amp; STEEL CO., LTD</b>
<i>Place of manufacture</i>	<b>NO600 WEST SHENG'AN ROAD, WUXI WUXI CHINA</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

Issued in **SHANGHAI** on **January 11, 2010**. This Certificate is valid until **November 10, 2014**



  
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RINA  
**Massimo Sanquerin**  
HEAD OF SHANGHAI OFFICE  
RINA

This certificate consists of this page and 1 enclosure

