



MARINE DIVISION

BUREAU
VERITAS

Certificate number: 16026/B0 BV

File number: MAT 61796

Product code: 90131

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

Shanxi Taigang Stainless Steel Co. Ltd.

Taiyuan - CHINA

for the type of product

STAINLESS STEEL ROLLED PRODUCTS

Hot rolled plates in stainless steel grades 316L and UNS S31803

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 14 Jan 2016

For BUREAU VERITAS,

At BV SHANGHAI, on 14 Jan 2011,

Jennifer Zhang



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Hot rolled plates in austenitic stainless steel and austenitic-ferritic (duplex) stainless steel.

Steel grade	Delivery condition	Thickness
316 L	Solution treated	Thickness range 6 mm to 20 mm
UNS S31803	Solution treated	Thickness range 6 mm to 40 mm

Steelmaking by Electric Arc Furnace, Argon Oxygen Decarburization and vertical continuous casting.
Plates are made by hot rolling of slabs with a solution treatment followed by rapid cooling.

2. DOCUMENTS AND DRAWINGS :

- "Works approval document" issued by Stainless steel incorporated company Ltd. of TISCO and dated August 2005.
- "Works approval document for duplex stainless steel plate for ships" issued by Shanxi Taigang Stainless Steel Co. Ltd and dated January 2007

3. TEST REPORTS :

- "The testing conspectus for works approval of hot rolled austenitic stainless steel for ships" issued by Stainless steel incorporated company Ltd. of TISCO and dated September 2005 ;
- "Works approval for stainless steel plate 316L - Testing reports" issued by Stainless steel incorporated company Ltd. of TISCO and dated September 2005 ;
- "Works approval document for duplex stainless steel plate for ships" issued by Shanxi Taigang Stainless Steel Co. Ltd and dated January 2007.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

The stainless steel plates are to be manufactured, examined and tested by Shanxi Taigang Stainless Steel Co. Ltd in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

Arrangements shall be made for a Society's Surveyor to attend the relevant tests and examinations at manufacturer's works or to perform the relevant audits when an alternative survey scheme (BV Mode I) has been agreed. Relevant Bureau Veritas certificate will be issued after satisfactory completion of the procedure.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for the Classification.

7. OTHERS :

This certificate cancels and replaces approval number 16026/A0 dated 06 January 2006 and 16026/A1 dated 13 February 2009.

*** END OF CERTIFICATE ***