

MARINE DIVISION

17 bis Place des Reflets - La Défense 2
92400 Courbevoie - France

Tel. 33 1 42 91 52 91
Fax. 33 1 42 91 28 94
www.veristar.com



Certificate number: 19051/A0 BV

File number : MAT 56835 - 2006

Product code : 8999I

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

APPROVAL CERTIFICATE for MATERIALS

as per Bureau Veritas Classification Rules

This certificate is issued to

NEDSTAAL BV
ALBLASSERDAM - NETHERLANDS

for the product

SEMI-FINISHED PRODUCTS

Ingot casting billets in carbon, carbon-manganese, alloy and low alloy steels.

Regulations and standards :

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 of the Regulations and standards mentioned above.

This certificate is valid until : 01 Dec 2011

At Paris la Défense, on : 01 Dec 2006

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV ROTTERDAM
Surveyor : J. Huis



J. BENOIT



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. 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 :

Ingot cast billets.

Steel grades	Deoxydation practice	Shape
Carbon steels, typically C35, C45, C60, C68	Al and/or FeSi deoxidised	290mm square
Carbon-Manganese steels, typically S355, TSTE355	Al and/or FeSi deoxidised	200mm square
Alloy steels, typically 17CrNiMo6, 30CrNiMo8, 34CrNiMo6	Al and/or FeSi deoxidised	160, 200 and 250mm square
Alloy steels, typically 16MnCr5, 20MnCr5	Al and/or FeSi deoxidised	160 and 200mm square
Alloy steels, typically 30CrMoV9, 25CrMo4, 34CrMo4, 42CrMo4	Al and/or FeSi deoxidised	180mm square

Steelmaking by Electric Arc Furnace, Oxygen blowing, Ladle Furnace and Vacuum Degassing.
Ingot castings of 4.3 tons.

2. DOCUMENTS AND DRAWINGS :

"Company Scope" issued by Nedstaal BV and dated 7 July 2006.

3. TEST REPORTS :

"Production and test reports for the approval by Bureau Veritas" issued by Nedstaal BV.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

The billets are to be manufactured, examined and tested by Nedstaal BV 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 tests and examinations at manufacturer's works or to perform the relevant audits when an alternative survey scheme, BV Mode I, has been arranged, in order to issue the Bureau Veritas certificate for the billets to be fitted on board ships classed with Bureau Veritas.

The billets are to be manufactured, examined and tested by Nedstaal BV in accordance with the type described in this certificate and Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units. Arrangements shall be made for a Society's Surveyor to perform periodic visits and product audits at the production sites.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

Nil.

*** END OF CERTIFICATE ***

