Marine & Offshore

Certificate number: 20929/D0 BV
File number: MAT 2838-2009
Product code: 9007I

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

ARCELORMITTAL BRASIL S.A.

Serra - ES - BRAZIL

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled coils and plates from coils in steel grades AH32 and AH36.

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

This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 20 Aug 2030

For Bureau Veritas Marine & Offshore,
At BV RIO DE JANEIRO, on 20 Aug 2025,
Marcelo Machado

This certificate was created electronically and is valid without signature

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 Marine & Offshore. 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 & Offshore 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 Marine & Offshore 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 coils and plates from coils.

Steel grade	Deoxydation practice & Refining	Delivery conditions
AH32	Al - Si Killed or Al Killed and grain refining with Al or Al+Nb or Al+Ti	As Rolled (AR) up to 16mm
AH36	Al - Si Killed or Al Killed and grain refining with Al or Al+Nb or Al+Ti	As Rolled (AR) up to 16mm

Steelmaking by BOF converters. Continuous Casting.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by ArcelorMittal Brasil (AM Tubarao):
- "CST TEST REPORT - Hot Coils Approval for Plates - Higher Strength Hull Structural Steel (Grades AH-32)" dated May 2008.
- Statement Thickness measurement procedure dated 31/07/2025.

3. TEST REPORTS :

3.1 - Documents issued by ArcelorMittal Brasil (AM Tubarao):
- "CST TEST REPORT - Hot Coils Approval for Plates - Higher Strength Hull Structural Steel (Grades AH-32)" dated May 2008.
- "ArcelorMittal Tubarao's data book" dated July 2016.
- Weldability tests: Doc. No.B52240MRT0015 Revision1 and No.B52240MRT0014 Revision 1 dated 18 October 2016.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.
4.2 - Chemical composition and tensile properties requirements are to be as per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units, and/or alternative specification mentioned on reviewed drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The hot rolled coils and plates from coils are to be supplied by Arcelormittal Brasil (AM Tubarao) in compliance with the type and the requirements described in this certificate.
5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
5.3 - BV product certificate is required.
5.4 - For information, Arcelormittal Brasil (AM Tubarao) has declared to Bureau Veritas the following production site:

Arcelormittal Brasil (AM Tubarao)
Av. Brigadeiro Eduardo Gomes, 526
Polo Industrial
29160-904 Serra – ES (BRAZIL)

6. MARKING OF PRODUCT :

6.1 - Each hot rolled coil that has been tested with satisfactory results are to be marked with the following information:
- Manufacturer’s name or trademark
- Bureau Veritas’ Mark
- Identification marking enabling traceability, such as cast number, heat number, or batch number
- Material grade and classification
- Additional markings where applicable, such as test pressure or specific inspection references

Additional marking requirements specific to hot rolled coils shall be in accordance with the “Marking” article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units.

7. OTHERS :

7.1 - It is Arcelormittal Brasil (AM Tubarao)'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
7.2 - This certificate supersedes the Type Approval Certificate N° 20929/C0 BV issued by the Society.

***** END OF CERTIFICATE *****