



Marine & Offshore

Certificate number: 37174/C0 BV

File number: MAT 95586-2014

Product code: 8999H

*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*

**NUNKI STEEL S.p.A.**  
SAN GIORGIO DI NOGARO -UD - ITALY

*for the type of product*

**SEMI-FINISHED PRODUCTS**

Ingot for forged products in Carbon, Carbon-Manganese and alloy steels

**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: 16 Apr 2029**

For Bureau Veritas Marine & Offshore,  
At BV NAPOLI, on 16 Apr 2024,  
Alessandro Asbornio

*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](http://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 electronic version is available at: <http://www.veristarp.com/veristarb/jsp/viewPublicPdfTypepec.jsp?id=5k4nn8aibg>  
BV Mod. Ad.E 1533 June 2017

This certificate consists of 2 page(s)

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

Semi-finished ingots for forged products in carbon, carbon-manganese and alloy steels. Maximum ingot weight 160 tons.

Steelmaking in Electric Arc Furnace, Ladle Refining Furnace and Vacuum Degassing.

Typical grades are :

- C30 according to EN10083-2 and C35 according to EN10083-1 for Carbon steels.
- LF2 and LF6 according to ASTM A350 for Carbon-manganese steels.
- F22 CL.3 according to ASTM A182 and 42CrMo4 according to EN 10083-1 for Alloy steels.

### **2. DOCUMENTS AND DRAWINGS :**

2.1 - Document issued by Nunki Steel S.p.A.:

-"Plant, process, production's information" submitted February 2014.

### **3. TEST REPORTS :**

3.1 - Documents issued by Nunki Steel S.p.A.:

- Chemical analysis dated 17 February 2014.
- Certificates of quality and material testing N° 28642-28643-28644 dated 18 February 2014.

### **4. APPLICATION / LIMITATION :**

As per Bureau Veritas Rules for Classification. Chemical composition, tensile properties, and Charpy-V notch test requirements are to be as per Bureau Veritas Rules NR216 and/or alternative specification mentioned on reviewed documents and drawings as applicable.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The steel ingots are to be supplied by Nunki Steel S.p.A. in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - Nunki Steel S.p.A. has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, Nunki Steel S.p.A. has declared to Bureau Veritas the following production site:

**Nunki Steel S.p.A.**  
Via Enrico Fermi, 33  
ZI Aussa Corno  
33058 San Giorgio di Nogaro (UD)  
Italy

### **6. MARKING OF PRODUCT :**

As per Bureau Veritas Rules for Classification.

### **7. OTHERS :**

This certificate replaces approvals No.37174/A0 BV and No.37174/B0 BV.

It is Nunki Steel S.p.A.'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.

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