



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
FZ24PWA00006

工厂认可证书  
CERTIFICATE OF WORKS APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

品牌拥有方/ Licensor

福建青拓镍业有限公司  
Fujian Tsingtuo Nickel Industry Co.,Ltd.  
福安市湾坞镇浮溪村  
Fuxi Village, Wanwu town, Fu'an, Fujian, P.R.China

授权制造企业/Authorized Manufacturer

产品由本社认可的中国 OEM 生产  
The product is manufactured by OEM approved by CCS located in China.

产品名称/Product

轧制不锈钢钢板  
Stainless Steel Plates

认可标准/Approval Standard

1. 中国船级社《材料与焊接规范》第1篇第3章  
Chapter 3, Part One of China Classification Society Rules for Materials and Welding.

用于/Intended for

船舶/Ships

产品明细/Product Description

钢板/Steel Plates (M0001)

| 名称/Name                | 属性(值)/Value                                | 单位/Unit |
|------------------------|--------------------------------------------|---------|
| 产品名称/Product Name      | 奥氏体不锈钢钢板 Austenitic stainless steel Plates |         |
| 最大厚度/Maximum Thickness | 详见附件 See Additional Pages                  |         |
| 浇注方式/Casting Process   | 详见附件 See Additional Pages                  |         |
| 冶炼方式/Smelting Process  | 详见附件 See Additional Pages                  |         |
| 材料牌号/Designation       | 06Cr19Ni10 (S30408)、022Cr19Ni10 (S30403)   |         |
| 热处理/Heat Treatment     | 详见附件 See Additional Pages                  |         |

钢板/Steel Plates (M0002)

| 名称/Name | 属性(值)/Value | 单位/Unit |
|---------|-------------|---------|
|---------|-------------|---------|

证书有效期至/This Certificate is valid until 2029年12月22日/ Dec. 22,2029

发证机构/Issued by 中国船级社福州分社  
CHINA CLASSIFICATION SOCIETY Fuzhou Branch

签发日期/Date 2024年12月23日  
Dec. 23,2024

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向本社检验机构咨询。本证书凡是未注明版本的规范，其（发证时）最新版本适用于本证书。  
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices. For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the this certificate.



Form No: W02.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P024-27000239

|                        |                                            |    |
|------------------------|--------------------------------------------|----|
| 产品名称/Product Name      | 奥氏体不锈钢钢板 Austenitic stainless steel Plates |    |
| 最大厚度/Maximum Thickness | 详见附页 See Additional Pages                  | mm |
| 浇注方式/Casting Process   | 详见附页 See Additional Pages                  |    |
| 材料牌号/Designation       | 022Cr17Ni12Mo2 (S31603)                    |    |
| 冶炼方式/Smelting Process  | 详见附页 See Additional Pages                  |    |
| 热处理/Heat Treatment     | 详见附页 See Additional Pages                  |    |

钢板/Steel Plates (M0003)

| 名称/Name                | 属性 (值) /Value                              | 单位/Unit |
|------------------------|--------------------------------------------|---------|
| 产品名称/Product Name      | 奥氏体-铁素体不锈钢钢板 Duplex stainless steel Plates |         |
| 最大厚度/Maximum Thickness | 详见附页 See Additional Pages                  | mm      |
| 浇注方式/Casting Process   | 详见附页 See Additional Pages                  |         |
| 冶炼方式/Smelting Process  | 详见附页 See Additional Pages                  |         |
| 材料牌号/Designation       | 022Cr23Ni5Mo3N (S22053)                    |         |
| 热处理/Heat Treatment     | 详见附页 See Additional Pages                  |         |

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : 无/Nil.

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : (2024)YJWJ19137  
试验报告日期/ Test Report Date : 2024-11-27  
试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.  
试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19138  
试验报告日期/ Test Report Date : 2024-11-27  
试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.  
试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19139  
试验报告日期/ Test Report Date : 2024-11-27  
试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.  
试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19140  
试验报告日期/ Test Report Date : 2024-11-27  
试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.  
试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19143  
试验报告日期/ Test Report Date : 2024-11-28  
试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.  
试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19144  
试验报告日期/ Test Report Date : 2024-11-28  
试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.  
试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19135

试验报告日期/ Test Report Date : 2024-11-27

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19136

试验报告日期/ Test Report Date : 2024-11-27

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17101

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17102

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17103

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17104

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17108

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17109

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17110

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ17111

试验报告日期/ Test Report Date : 2024-11-22

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19508

试验报告日期/ Test Report Date : 2024-11-28

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19510

试验报告日期/ Test Report Date : 2024-11-28

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19511

试验报告日期/ Test Report Date : 2024-11-28

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19334

试验报告日期/ Test Report Date : 2024-11-27

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : (2024)YJWJ19503

试验报告日期/ Test Report Date : 2024-11-27

试验单位/ Laboratory: 江苏澄信检验检测认证股份有限公司 Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.

试验单位地址/ Test Address: 江阴市东外环路188号 No.188, Dongwaihuan Rd.,Jiangyin

试验报告编号/ Test Report No. : QTN20230710

试验报告日期/ Test Report Date : 2023-07-10

试验单位/ Laboratory: 福建青拓镍业有限公司 Fujian Tsingtu Nickel Industry Co.,Ltd

试验单位地址/ Test Address: 福建省宁德市福安市湾坞镇浮溪村 Fuxi Village,Wanwu town,Fu'an,Fujian,P.R.China

## 认可后的产品检验方式/ Method of Product Inspection after Approval

按规范认可后应进行产品检验的产品/The product should be inspected in term of the rules:

认可后的产品检验应由本社验船师根据本社规范规定按批准的产品检验计划进行检验, 经检验合格后由本社颁发船用产品证书。

After approval, product inspection should be carried out by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

## 认可保持条件/ Maintenance Requirements of Approval

1. 工厂认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After works approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社暂停或撤销认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to suspend or withdraw the certificate, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 工厂认可证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检

查工作应在定期审核日的前后三个月内进行。

Those who have obtained the certificate of works approval shall receive periodical audit done by the Society on an annual basis. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

6. 在本证书有效期内，品牌拥有方和产品制造企业之间的授权协议的失效将自动导致本证书的失效。

During the period of validity, this certificate will automatically be ineffective in case of the invalidity of the authorization agreement between the licensor and the manufacturer(s).

#### 备注/Remarks

1. 品牌方&板坯制造厂：福建青拓镍业有限公司；  
Brand & Slab manufacturing plant:Fujian Tsingtuo Nickel Industry Co.,Ltd;
2. 代轧制厂(OEM)：江阴兴澄特种钢铁有限公司；  
OEM: Jiangyin Xingcheng Special Works Steel Co., Ltd ;
3. 后处理厂(OEM)：江苏骏茂新材料科技有限公司。  
OEM: Jiangsu Dream New Material Technology Co.,Ltd.

**中国船级社福州分社**

**CCS Fuzhou Branch**

注：本证书含有附页，共3页

Note: The certificate is attached with additional 3 page(s)

产品明细/Product Description

|                                   |                                                                         |
|-----------------------------------|-------------------------------------------------------------------------|
| 产品名称<br>Product name              | 奥氏体不锈钢钢板<br>Austenitic stainless steel Plates                           |
| 牌号<br>Designation                 | 06Cr19Ni10 (S30408)、022Cr19Ni10 (S30403)                                |
| 规格<br>Specification               | 宽度:(1000~3800)mm x厚度:(8~30)mm<br>Width:(1000~3800)mm thickness:(8~30)mm |
| 厚度<br>Thickness                   | 最大厚度: 30mm<br>Maximum thickness : 30mm                                  |
| 冶炼方式<br>Melting process           | EAF+AOD+LF                                                              |
| 浇注方式<br>Casting process           | 连铸<br>Continuous casting                                                |
| 脱氧方式<br>Deoxidation method        | 镇静和细化晶粒处理<br>Sedation and grain refinement treatment                    |
| 细化晶粒元素<br>Grain refining elements | 铝、硼 Al,B                                                                |
| 轧制方式<br>Rolling method            | 热轧<br>Hot-rolling                                                       |
| 热处理<br>Heat treatment             | 固溶处理<br>Solution treated                                                |
| 表面处理<br>Surface treatment         | 酸洗钝化<br>Acid wash passivation                                           |

|                                   |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| 产品名称<br>Product name              | 奥氏体不锈钢钢板<br>Austenitic stainless steel Plates                               |
| 牌号<br>Designation                 | 022Cr17Ni12Mo2 (S31603)                                                     |
| 规格<br>Specification               | 宽度: (1000~3800)mm x厚度: (8~36)mm<br>Width: (1000~3800)mm thickness: (8~36)mm |
| 厚度<br>Thickness                   | 最大厚度: 36mm<br>Maximum thickness : 36mm                                      |
| 冶炼方式<br>Melting process           | EAF+AOD+LF                                                                  |
| 浇注方式<br>Casting process           | 连铸<br>Continuous casting                                                    |
| 脱氧方式<br>Deoxidation method        | 镇静和细化晶粒处理<br>Sedation and grain refinement treatment                        |
| 细化晶粒元素<br>Grain refining elements | 铝、硼   Al, B                                                                 |
| 轧制方式<br>Rolling method            | 热轧<br>Hot-rolling                                                           |
| 热处理<br>Heat treatment             | 固溶处理<br>Solution treated                                                    |
| 表面处理<br>Surface treatment         | 酸洗钝化<br>Acid wash passivation                                               |

|                                   |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| 产品名称<br>Product name              | 奥氏体-铁素体不锈钢板<br>Duplex stainless steel Plates                                |
| 牌号<br>Designation                 | 022Cr23Ni5Mo3N (S22053)                                                     |
| 规格<br>Specification               | 宽度: (1000~3800)mm x厚度: (8~36)mm<br>Width: (1000~3800)mm thickness: (8~36)mm |
| 厚度<br>Thickness                   | 最大厚度: 36mm<br>Maximum thickness : 36mm                                      |
| 冶炼方式<br>Melting process           | EAF+AOD+LF                                                                  |
| 浇注方式<br>Casting process           | 连铸<br>Continuous casting                                                    |
| 脱氧方式<br>Deoxidation method        | 镇静和细化晶粒处理<br>Sedation and grain refinement treatment                        |
| 细化晶粒元素<br>Grain refining elements | 铝、硼 Al, B                                                                   |
| 轧制方式<br>Rolling method            | 热轧<br>Hot-rolling                                                           |
| 热处理<br>Heat treatment             | 固溶处理<br>Solution treated                                                    |
| 表面处理<br>Surface treatment         | 酸洗钝化<br>Acid wash passivation                                               |