



江苏狼山钢绳股份有限公司  
Jiangsu Langshan Wire Rope Co., Ltd.

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船用钢丝绳质量证明书  
Quality Certificate of Marine Steel Wire Ropes

质量证明书编号/Quality Cert. No.: JSL20180419-06

|                                   |                                                                                                                                                                               |                            |                                                      |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------|
| 产品名称/Name                         | 镀锌钢丝绳<br>Steel Wire Rope of Zinc Coating                                                                                                                                      | 制造厂/Manufacturer           | 江苏狼山钢绳股份有限公司<br>Jiangsu Langshan Wire Rope Co., Ltd. |
| 客户/Customer                       | 上海惠虎起重设备有限公司<br>SHANGHAI HUIHU LIFTING EQUIPMENT CO., LTD.                                                                                                                    | 订单号/Order No.              | N.A.                                                 |
| 船厂/Shipyard                       | N.A.                                                                                                                                                                          | 船号/Hull No.                | N.A.                                                 |
| 工厂认可证书号/Works' Approval Cert. No. | NJ17W00006_01                                                                                                                                                                 | 产品证书号<br>Product Cert. No. | NT18P00071_03                                        |
| 产品执行标准/Standards                  | CCS《材料与焊接规范》(2015) 及其修改通报第 1 篇第 10 章和 GB/T8918-2006 标准生产制造/Cha.10, Part 1 of CCS Rules for Material and Welding 2015 and its Amendments and its Amendments and GB/T8918-2006. |                            |                                                      |

产品明细(Particulars)

|                                |                                   |                                                                                                   |                 |
|--------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------|-----------------|
| 产品型号/Type                      | 阻旋转钢丝绳<br>Rotation-resistant rope | 结构型式/Construction                                                                                 | 19×7+IWS        |
| 绳径/Dia. of rope(mm)            | 10mm                              | 钢丝等级/Grade of steel wires(MPa)                                                                    | 1960MPa         |
| 锌层/Zinc coating                | 3                                 | 阻旋转/Rotation resistant                                                                            | 是/Yes           |
| 绳芯/Core of rope                | 钢芯/IWS                            | 股芯/Core of strand                                                                                 | 圆股/Round strand |
| 最小破断拉力/Min. breaking force(kN) | ≥64.3kN                           | 实测破断拉力(完整钢丝绳试验)/Actual breaking force (Breaking test of completed ropes), 或/or: (kN)              | N.A.            |
|                                |                                   | 实测破断拉力(拆股钢丝绳试验)/Actual breaking force (Summation of actual test results of individual wires) (kN) | 68kN            |
| 捻向/Lay type                    | 右交/ZS                             | 产品编号/Serail No.                                                                                   | 218030121A-3    |
| 长度/Length (m)                  | 2000m                             | 数量/Quantity                                                                                       | 1real           |
| 净重/Net weight(kg)              | 865kg                             | 制造日期/Manufacture date                                                                             | 2018.05         |

检验项目及结果/Test items & results:

| 编号/No. | 项目 (Items)                                  | 结论/Results                                       |
|--------|---------------------------------------------|--------------------------------------------------|
| 1.     | 外观检查及装配质量检验/Visual inspection & workmanship | ✓                                                |
| 2.     | 尺寸检验/Dimensions' check                      | ✓                                                |
| 3.     | 化学成分分析/Chemical positions                   | N.A.                                             |
| 4.     | 抗拉强度试验/Tensile strength test(MPa):          | 标准/Standard 1960<br>最大/Max. 2064<br>最小/Min. 1966 |
| 5.     | 扭转试验/Torsion tests                          | ✓                                                |
| 6.     | 反复弯曲试验/Repeated bending test                | ✓                                                |
| 7.     | 打结拉伸试验/Twisting tensile test                | N.A.                                             |
| 8.     | 金相检查/Metallographic examination             | N.A.                                             |
| 9.     | 卷绕试验/Wrapping tests                         | ✓                                                |
| 10.    | 镀锌试验/Zinc coating test                      | ✓                                                |
| 11.    | 整绳破断试验/Breaking test of completed rope      | N.A.                                             |
| 12.    | 阻旋转性能/Rotation resistant test               | N.A.                                             |

上述钢丝绳经检验和试验, 其结果符合 CCS 规范要求。

The above-mentioned Steel Wire Rope has been checked and tested and they are in compliance with CCS Rules.

产品标签上标有钢丝绳结构、强度、长度、厂名及 CCS 钢印标志。

The attached Labels were identified with the rope Structure, Strength, Length, Manufacturer's name and CCS steel Stamp.

质量承诺/Quality Promises:

产品按照 CCS 规范和产品标准进行生产制造, 生产过程与认可条件保持一致, 并经试验合格, 试验项目及试验数据真实有效。制造厂对产品质量负责。本产品不含石棉/ Our products have been manufactured and tested in compliance with CCS Rules & Standards. The production processes were in comply with tech. requirements which approved by CCS. The testing items & results were true and valid. We'll take the responsibility for our products. All our products are asbestos-free.

备注: 本质量证明书盖章有效, 复印无效 / The Certificate will only be effective with stamp but copy is invalid.

|                                          |                     |                                       |
|------------------------------------------|---------------------|---------------------------------------|
| 制造厂质管部门 (盖章)<br>QC Dept. of Manufacturer | CCS 印章<br>CCS Stamp | 中国船级社<br>CHINA CLASSIFICATION SOCIETY |
| 质量负责人<br>Chief Inspector                 | 验船师<br>Surveyor     | ZhaoDan                               |
| 日期/Date                                  | 日期/Date             | 2018-06-02                            |

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