BAOWU 新钢集团

# 新余钢铁股份有限公司
XINYU IRON & STEEL CO.,LTD.

## 产品质量证明书
INSPECTION CERTIFICATE

袁河

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本公司船体结构用钢板通过ABS、BV、CCS、DNV、KR、LR、NK、RINA、RS船级社工厂认可。

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CUSTOMER | MANUCHAR STEEL N.V | PRODUCT | Structural Steel Plates for Ships | | | DELTAIL NO. | 虚拟发运 | CERTIFICATE NO. | ZB123X210880 |
| PURCHASER | 新钢公司九江分公司XGEC-123110129 | SPECIFICATION | LR Rules | | | QTY | 3 | DATE OF ISSUE | 2023-12-04 |
| CONTRACT NO. | XGEC-123110129 | STATE OF DELIVERY (6) | AR | TRAIN NO. | | TOTAL MT | 8.274 | DATE OF DELIVERY | |

| NO | PLATE ID. | HEAT NO. | STEEL GRADE | MATERIAL DESCRIPTION THICK (mm) | WIDTH (mm) | LENGTH (mm) | QTY | WEIGHT MT | 分析区分 (1) | C | Si | Mn | P | S | Cr | Ni | Cu | Als | Mo | Ceq |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Z231584C.3.1 | J37-14021A | LRB | 12 | 2440 | 12000 | 1 | 2.758 | L | 0.16 | 0.16 | 0.62 | 0.015 | 0.007 | 0.05 | 0.02 | 0.04 | 0.002 | 0.01 | 0.26 |
| 2 | Z231598C.1.1 | J37-14021A | LRB | 12 | 2440 | 12000 | 1 | 2.758 | L | 0.16 | 0.16 | 0.62 | 0.015 | 0.007 | 0.05 | 0.02 | 0.04 | 0.002 | 0.01 | 0.26 |
| 3 | Z231598C.2.1 | J37-14021A | LRB | 12 | 2440 | 12000 | 1 | 2.758 | L | 0.16 | 0.16 | 0.62 | 0.015 | 0.007 | 0.05 | 0.02 | 0.04 | 0.002 | 0.01 | 0.26 |

| NO | PLATE ID. | 试验区分 (2) | 拉伸试验 TENSILE TEST 位置方向 (3) | 温度 T | 屈服 Y.S ReH | 抗拉 T.S Rm | 伸长率 E.L A | 冲击试验 IMPACT TEST 位置方向 (3) | 试样尺寸 (4) | 温度 T | KV2 1 | 2 | 3 | AVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ℃ | MPa | MPa | % | | | ℃ | J | J | J | J |
| 1 | Z231584C.3.1 | H | T | 室温 | 321 | 455 | 29.5 | L | A | 0 | 93.1 | 153.6 | 145.4 | 130.7 |
| 2 | Z231598C.1.1 | H | T | 室温 | 300 | 451 | 29.0 | L | A | 0 | 183.3 | 152.7 | 157.7 | 164.6 |
| 3 | Z231598C.2.1 | H | T | 室温 | 300 | 451 | 29.0 | L | A | 0 | 183.3 | 152.7 | 157.7 | 164.6 |

WORKS APPROVAL NO. LR22268112WA

Lloyd's Register Classification Society (China) Ltd.
Initials XMW
Guangzhou Office
Lloyd's Register

LR CONTROL NO: GZU 2350272

备注 REMARKS: Mill Test Certificate according to EN 10204 3.2

注释 NOTES: (1)分析区分 ANALYSIS: L=熔炼分析 LADLE ANALYSIS. P=成品分析 PRODUCT ANALYSIS. (2)试验区分 SAMPLING POSITION: B=尾部 BOTTOM. H=头部 TOP. A=任意 Any (3)位置方向 LOCATION AND ORIENTATION: T=横向 TRANS L=纵向 LONGI. Z=厚度方向 THROUGH-THICK. (4)试样尺寸 SPECIMEN SIZE: A=10*10*55; B=10*7.5*55; C=10*5.0*55. (5)Z向断面收缩率 THROUGH THICKNESS REDUCTION IN AREA. (6)交货状态 STATE OF DELIVERY: N=正火 NORMALIZED. Q=淬火 QUENCHED. T=回火 TEMPERED. A=退火 ANNEALED. CR=控制轧制 CONTROLLED ROLLED. TM=TMCP. AR=热轧 AS HOT ROLLED. (7)当化学分析显示为“0”时表示检测出的该元素含量≤0.0005%。When the chemical analysis is shown as "0", it means that the content of the element detected is ≤0.0005%. (8)Ceq=C+Mn/6

兹证明本材料按认可的工艺规程制造,并按英国船级社规范进行了试验,且各项要求均已满足.
We hereby certify that the material has been made by an approved process and satisfactorily tested in accordance with the Rules of Lloyd's Register.
该船板厚度公差符合IACS UR W 13 的要求。
The thickness of hull plates are complied with requirement of IACS UR W13.

新余钢铁股份有限公司 (9) 质量检验专用章
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QUALITY INSPECT STAT.