敬业（营口）中板有限公司
JINGYE (YINGKOU) MEDIUM PLATE CO.LTD.
辽宁省营口市老边区冶金街/115005
Yejinstreet,Laobiandistrict,Yingkou,Liaoning,P.R.China/115005
TEL:0417-3256081 FAX:0417-3256057 NO.:DT2101501/A

# 产品质量证明书
# INSPECTION CERTIFICATE

| | | | | | |
|---|---|---|---|---|---|
| 订货单位 PURCHASER | CUMIC STEEL USA, INC | 产品名称 PRODUCT | 船用钢板 Hull Steel plate | | |
| 收货单位 CONSIGNEE | CUMIC STEEL USA, INC | 合同编号 CONTRACT NO. | YGCAZANN251183005-01 | | |
| 技术标准/牌号 SPEC/GRADE | LR RULES;LRB | 交货状态 DELIVERY CONDITION | 正火轧制(NR) | 签发日期 DATE OF ISSUE | 20260118 |
| | | 证明书编号 CERTIFICATE NO. | 260118Z00791 | 控制号 CONTROL NUMBER | DLN2600031 |
| 车 号 TRAIN NO. | | 船号 HULL NO. | | 是否保性能 GUARANTEE OR NOT | 是 YES |

| 炉号 HEAT NO. | 批号 LOT NO. | 钢板号 PLATE NO. | 分段号 SECTION NO. | 规格 (MM) DIMENSION | 数量 QTY | 重量 WEIGHT kg | 化学成分 CHEMICAL ANALYSIS % C | Si | Mn | P | S | Als | Ti | Nb | Ni | Cr | Cu | Mo | CeqA | B 0A01 屈服强度 MPa ReH | B 0A02 抗拉强度 MPa Rm | B 0A03 断后伸长率 % B1 | A 0C01 冲击单值A J | A 0C012 冲击单值B J | A 0C013 冲击单值C J | A 0C02 冲击均值 Ave J |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ×10⁻³ | ×10⁻² | ×10⁻³ | ×10⁻³ | ×10⁻³ | ×10⁻³ | ×10⁻⁴ | ×10⁻⁴ | ×10⁻⁴ | ×10⁻³ | ×10⁻³ | ×10⁻⁴ | ×10⁻³ | | | | | | | |
| 26100593A | S61110002 | S6110417101 | | 8x2440x12000 | 1 | 1,839 | 138 | 21 | 797 | 20 | 4 | 25 | 130 | 40 | 180 | 39 | 11 | 50 | 271 | 351 | 452 | 33.5 | 63 | 89 | 69 | 74 |
| 26100593A | S61110002 | S6110417201 | | 8x2440x12000 | 1 | 1,839 | 138 | 21 | 797 | 20 | 4 | 25 | 130 | 40 | 180 | 39 | 11 | 50 | 271 | 351 | 452 | 33.5 | 63 | 89 | 69 | 74 |
| 26100593A | S61110002 | S6110417301 | | 8x2440x12000 | 1 | 1,839 | 138 | 21 | 797 | 20 | 4 | 25 | 130 | 40 | 180 | 39 | 11 | 50 | 271 | 351 | 452 | 33.5 | 63 | 89 | 69 | 74 |
| 26100593A | S61110002 | S6110419301 | | 8x2440x12000 | 1 | 1,839 | 138 | 21 | 797 | 20 | 4 | 25 | 130 | 40 | 180 | 39 | 11 | 50 | 271 | 351 | 452 | 33.5 | 63 | 89 | 69 | 74 |
| 26100593A | S61110002 | S6110420301 | | 8x2440x12000 | 1 | 1,839 | 138 | 21 | 797 | 20 | 4 | 25 | 130 | 40 | 180 | 39 | 11 | 50 | 271 | 351 | 452 | 33.5 | 63 | 89 | 69 | 74 |
| 26100591A | S61140010 | S6113441101 | | 6x2440x12000 | 1 | 1,379 | 137 | 19 | 799 | 18 | 3 | 32 | 150 | 20 | 190 | 37 | 10 | 30 | 270 | 350 | 470 | 33 | 53 | 57 | 61 | 57 |
| | | | | 合计(TOTAL)： | 6 | 10,574 | | | | | | | | | | | | | | | | | | | | |

**注释 NOTES**

L：熔炼成分 SMELTING COMPOSITION
拉伸标距(GAUGE LENGTH) Lo=5.65√S0 mm
A0C冲击试验IMPACTTEST：0°C，纵向LONGITUDINAL，近表 CLOSE TO SURFACE，尺寸SIZE10*5*55
CeqA=C+Mn/6
B0A01=YIELD STRENGTH
B0A02=TENSILE STRENGTH
B0A03=PRECENTAGE ELONGATION AFTER FRACTURE
A0C01=IMPACT TEST A
A0C012=IMPACT TEST B
A0C013=IMPACT TEST C
A0C02=IMPACT AVERAGE

According to EN 10204 3.2

我们在此证明此材料采用已被认可的方法制造，并且经检验符合LR船级社规范的要求。
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.

技术中心 Technology Center

验船师 SURVEYOR

S.J. He
Dalian Office
Lloyd's Register Classification Society China Co Ltd