



日钢营口中板有限公司
RIZHAO STEEL YINGKOU MEDIUM PLATE CO.,LTD.
辽宁省营口市老边区冶金街/115005
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TEL:0417-3256081 FAX:0417-3256057 NO.:DT2101501/A

产品质量证明书
INSPECTION CERTIFICATE



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|-----------------------|---------------------|----------------------------|--------------------------|
| 订货单位 PURCHASER | CUMIC STEEL LIMITED | 船名 SHIP NAME | 船用钢板 Hull Steel plate |
| 收货单位 CONSIGNEE | CUMIC STEEL LIMITED | 合同编号 CONTRACT NO. | YGR1ZANN240783010-03 |
| 技术标准/牌号 SPEC/GRADE | LR RULES ; LRB | 交货状态 DELIVERY CONDITION | 正火轧制(NR) |
| 车号 TRAIN NO. | | 质量证明书 CERTIFICATE NO. | 240817Z00073 |
| | | 船号 HULL NO. | |
| | | 签发日期 DATE OF ISSUE | 20240820 |
| | | 控制号 CONTROL NUMBER | DLN2400979 |



| 炉号 HEAT NO. | 批号 LOT NO. | 钢板号 PLATE NO. | 分段号 SECTION NO. | 规格 DIMENSION (MM) | 数量 QTY | 重量 WEIGHT kg | 化学成分 CHEMICAL ANALYSIS % | | | | | | | | | | | | | | 力学性能 MECHANICAL PROPERTIES | | | | | |
|----------------|---------------|------------------|--------------------|-------------------------|-----------|--------------------|-----------------------------|----|-----|----|---|-----|-----|----|-----|----|----|----|------|----------------------|-------------------------------|----------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | C | Si | Mn | P | S | Als | Ti | Nb | Ni | Cr | Cu | Mo | CeqA | B0A01 屈服强度 ReH | B0A02 抗拉强度 Rm | B0A03 断后伸长率 B1 | A0C01 冲击功 J | A0C02 冲击功 J | A0C03 冲击功 J | A0C04 冲击功 J |
| 24206699A | S48150031 | S4815072101 | | 8x2440x12000 | 1 | 1.839 | 171 | 21 | 665 | 15 | 8 | 25 | 100 | 20 | 160 | 47 | 8 | 10 | 282 | 318 | 448 | 37 | 144 | 143 | 153 | 147 |
| 24206699A | S48150031 | S4815072201 | | 8x2440x12000 | 1 | 1.839 | 171 | 21 | 665 | 15 | 8 | 25 | 100 | 20 | 160 | 47 | 8 | 10 | 282 | 318 | 448 | 37 | 144 | 143 | 153 | 147 |
| 24206699A | S48150031 | S4815072301 | | 8x2440x12000 | 1 | 1.839 | 171 | 21 | 665 | 15 | 8 | 25 | 100 | 20 | 160 | 47 | 8 | 10 | 282 | 318 | 448 | 37 | 144 | 143 | 153 | 147 |
| 24307335A | S48160013 | S4815513101 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815513201 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815513301 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815514101 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815514201 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815514301 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815516101 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815516201 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 24307335A | S48160013 | S4815516301 | | 6x2440x12000 | 1 | 1.379 | 131 | 24 | 807 | 25 | 3 | 28 | 130 | 20 | 290 | 64 | 7 | 10 | 266 | 334 | 464 | 36.5 | 86 | 88 | 86 | 87 |
| 合计(TOTAL): | | | | | 12 | 17.928 | | | | | | | | | | | | | | | | | | | | |

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| 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IMPACT TEST: 0C, 纵向LONGITUDINAL, 近表 CLOSE TO SURFACE, 尺寸SIZE10*5*55 CeqA=C+Mn/6 | B0A03=PERCENTAGE ELONGATION AFTER FRACTURE A0C01=IMPACT TEST A A0C012=IMPACT TEST B A0C013=IMPACT TEST C A0C02=IMPACT AVERAGE |
| | B0A01=YIELD STRENGTH B0A02=TENSILE STRENGTH | |
| | 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. | |
| | 冶金技术处处长 DIRECTOR OF METALLURGICAL DEPARTMENT | 验船师 SURVEYOR |
| | 野牛 YENIU |  S.J. He Dalian Office Lloyd's Register Classification Society China Co Ltd  |