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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# 产品质量证明书
# INSPECTION CERTIFICATE

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|---|---|---|---|---|---|
| 订货单位 PURCHASER | HYUNDAI CORPORATION | 产品名称 PRODUCT | 普通碳素结构钢 General carbon structural steel | | |
| 收货单位 CONSIGNEE | HYUNDAI CORPORATION | 合同编号 CONTRACT NO. | YGR1ZANN240583008-01 | | |
| 技术标准/牌号 SPEC/GRADE | ASTM A36/A36M;ASTM A36 | 交货状态 DELIVERY CONDITION | 热轧(AR) | 签发日期 DATE OF ISSUE | 20240720 |
| | | 证明书编号 CERTIFICATE NO. | 240720Z00306 | | |
| 车 号 TRAIN NO. | | | | | |

| 炉号 HEAT NO. | 批号 LOT NO. | 钢板号 PLATE NO. | 规格 (MM) DIMENSION | 数量 QTY | 重量 WEIGHT kg | 分析区域 AA | 化学成分 CHEMICAL ANALYSIS % C | Si | Mn | P | S | CEV | Cr | Mo | V | Ni | Cu | Nb | Ti | B0A01 屈服强度 MPa Rp0.2 | B0A02 抗拉强度 MPa Rm | B0A03 断后伸长率 % B5 | B0A04 屈强比 | B0B01 弯曲试验 d=3a 180° | A0C01 冲击单值 A J | A0C012 冲击单值 B J | A0C013 冲击单值 C J | A0C02 冲击均值 Ave J |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | $\times10^{-3}$ | $\times10^{-3}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-4}$ | $\times10^{-2}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-4}$ | | | | | | | | | |
| 24205339A | S47080011 | S4707512301 | 6x2440x12000 | 1 | 1,379 | L | 146 | 167 | 819 | 250 | 90 | 29 | 34 | 20 | 2 | 110 | 7 | 20 | 20 | 319 | 451 | 28.5 | 0.71 | OK | 96 | 79 | 82 | 86 |
| 24205339A | S47080013 | S4707519101 | 6x2440x12000 | 1 | 1,379 | L | 146 | 167 | 819 | 250 | 90 | 29 | 34 | 20 | 2 | 110 | 7 | 20 | 20 | 302 | 443 | 28.5 | 0.68 | OK | 76 | 67 | 82 | 75 |
| 24205339A | S47080013 | S4707519301 | 6x2440x12000 | 1 | 1,379 | L | 146 | 167 | 819 | 250 | 90 | 29 | 34 | 20 | 2 | 110 | 7 | 20 | 20 | 302 | 443 | 28.5 | 0.68 | OK | 76 | 67 | 82 | 75 |
| 24111333A | S47130027 | S4713048101 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713048201 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713048301 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713049101 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713049201 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713049301 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713050101 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713050201 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| 24111333A | S47130027 | S4713050301 | 6x2440x12000 | 1 | 1,379 | L | 141 | 141 | 827 | 190 | 85 | 29 | 57 | 40 | 2 | 210 | 8 | 20 | 20 | 314 | 459 | 29.5 | 0.68 | OK | 84 | 86 | 81 | 84 |
| | | | 合计(TOTAL): | 12 | 16,548 | | | | | | | | | | | | | | | | | | | | | | | |

注释 NOTES

L: 熔炼成分 SMELTING COMPOSITION
拉伸标距(GAUGE LENGTH) Lo=200 mm
A0C冲击试验IMPACTTEST: 20℃，纵向LONGITUDINAL，
近表 CLOSE TO SURFACE，尺寸SIZE10*5*55
B0A01=YIELD STRENGTH
B0A02=TENSILE STRENGTH
B0A03=PRECENTAGE ELONGATION AFTER FRACTURE
B0A04=YIELD STRENGTH RATIO
B0B01=BENDTEST
A0C01=IMPACT TEST A
A0C012=IMPACT TEST B
A0C013=IMPACT TEST C
A0C02=IMPACT AVERAGE

According to EN 10204 3.1

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本产品已按照标准要求进行制造和检验，其结果符合要求，特此证明。
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HAS MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE MATERIAL SPECIFICATION

冶金技术处处长
DIRECTOR OF METALLURGICAL DEPARTMENT