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
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

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|---|---|---|---|
| 订货单位 PURCHASER | HYUNDAI CORPORATION | 产品名称 PRODUCT | 低合金高强度结构钢 High strength low alloy 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 A572/572M;A572 Gr.50 | 交货状态 DELIVERY CONDITION | 热轧(AR) |
| | | 签发日期 DATE OF ISSUE | 20240723 |
| | | 证明书编号 CERTIFICATE NO. | 240723Z00241 |
| 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 | C | Si | Mn | P | S | Als | Nb | Cr | Ni | Cu | Mo | V | Ti | CE | B0A01 屈服强度 | B0A02 抗拉强度 | B0A03 断后伸长率 | B0A04 屈强比 | B0B01 弯曲试验 | A0C01 冲击单值A | A0C012 冲击单值B | A0C013 冲击单值C | A0C02 冲击均值Ave |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 化学成分 CHEMICAL ANALYSIS % | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | $\times10^{-3}$ | $\times10^{-3}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-4}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-3}$ | $\times10^{-4}$ | $\times10^{-2}$ | MPa Rp0.2 | MPa Rm | % B5 | | d=3a 180° | J | J | J | J |
| 24205565A | S47140010 | S4713466101 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713466201 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713467201 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713467301 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713468101 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713468201 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713468301 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713469101 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713469201 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713469301 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713470101 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| 24205565A | S47140010 | S4713470201 | 8x2440x12000 | 1 | 1,839 | L | 165 | 207 | 1383 | 200 | 47 | 29 | 130 | 25 | 110 | 10 | 10 | 1 | 180 | 40 | 403 | 572 | 23 | 0.70 | OK | 62 | 79 | 83 | 75 |
| | | | 合计(TOTAL): | 12 | 22,068 | | | | | | | | | | | | | | | | | | | | | | | | |

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: 4℃，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