



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



| | | | |
|-----------------------|------------------------|--|-----------------------------------|
| 订货单位 PURCHASER | HYUNDAI CORPORATION | 普通碳素结构钢 General carbon structural steel | |
| 收货单位 CONSIGNEE | HYUNDAI CORPORATION | YGR1ZANN240583008-01 | |
| 技术标准/牌号 SPEC/GRADE | ASTM A36/A36M;ASTM A36 | 热轧(AR) | 签发日期 DATE OF ISSUE 20240709 |
| 车号 TRAINNO. | | 240709Z00011 | |

| 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 % | | | | | | | | | | | | | | 力学性能 | | | | | | | | |
|----------------|---------------|------------------|-------------------------|-----------|--------------------|------------|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------|-------|-----|--------------|----|----|----|---|
| | | | | | | | C Si Mn P S CIV Cr Mo V Ni Cu Nb Ti | | | | | | | | | | | | | | 屈服强度 | 抗拉强度 | 断后伸长率 | 屈服比 | 冲击试验 | 冲击 | 冲击 | 冲击 | |
| | | | | | | | $\times 10^{-3}$ | $\times 10^{-3}$ | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-4}$ | $\times 10^{-2}$ | $\times 10^{-3}$ | $\times 10^{-4}$ | $\times 10^{-4}$ | MPa | MPa | % | d=3a 180° | J | J | J | J |
| 24205339A | S47080011 | S4707508201 | 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 | S47080011 | S4707508301 | 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 | S47080011 | S4707513101 | 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 | S47080011 | S4707513201 | 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 | S47080011 | S4707513301 | 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 | S47080011 | S4707514101 | 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 | S47080011 | S4707514201 | 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 | S47080011 | S4707514301 | 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 | S47080011 | S4707516101 | 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 | S47080011 | S4707516201 | 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 | S47080011 | S4707516301 | 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 | S4707517101 | 6x2440x12000 | 1 | 1,379 | L | 146 | 167 | 819 | 250 | 90 | 29 | 34 | 20 | 2 | 110 | 7 | 20 | 20 | 319 | 451 | 28.5 | 0.68 | OK | 76 | 67 | 82 | 75 | |
| 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IMPACT TEST: 20°C, 纵向LONGITUDINAL,
近表 CLOSE TO SURFACE, 尺寸SIZE10*5*55
B0A01=YIELD STRENGTH
B0A02=TENSILE STRENGTH
B0A03=PERCENTAGE ELONGATION AFTER FRACTURE

B0A04=YIELD STRENGTH RATIO
B0B01=BEND TEST
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

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