

TABLE B Minimum Number of Tension Tests Required

| Thickness ^A Range Rolled for the Heat | Thickness ^A Difference Between Pieces or Plates-as-rolled in the Thickness ^A Range | Minimum Number of Tension Tests Required |
|--|--|--|
| Under 3/8 in. [10 mm] | 1/16 in. [2 mm] or less | Two ^B tests per heat, taken from different pieces or plates-as-rolled having any thickness ^A in the thickness ^A range |
| | More than 1/16 in. [2 mm] | Two ^B tests per heat, one taken from the minimum thickness ^A in the thickness ^A range and one taken from the maximum thickness ^A in the thickness ^A range |
| 3/8 to 2 in. [10 to 50 mm], incl | Less than 3/8 in. [10 mm] | Two ^B tests per heat, taken from different pieces or plates-as-rolled having any thickness ^A in the thickness ^A range |
| | 3/8 in. [10 mm] or more | Two ^B tests per heat, one taken from the minimum thickness ^A in the thickness ^A range and one taken from the maximum thickness ^A in the thickness ^A range |
| Over 2 in. [50 mm] | Less than 1 in. [25 mm] | Two ^B tests per heat, taken from different pieces or plates-as-rolled having any thickness ^A in the thickness ^A range |
| | 1 in. [25 mm] or more | Two ^B tests per heat, one taken from the minimum thickness ^A in the thickness ^A range and one taken from the maximum thickness ^A in the thickness ^A range |

^AThickness means the specified thickness, diameter, or comparable dimension, whichever is appropriate for the specific structural product rolled.

^BOne test, if only one piece or plate-as-rolled is to be qualified.

TABLE C Minimum Number of Coils Required to be Tension Tested

NOTE—See 11.4.2.2 and 11.4.2.3 for the number of tests to be taken per coil.

| Thickness ^A Difference Between Coils in the Heat | Minimum Number of Coils Required to Be Tension Tested |
|---|--|
| Less than 1/16 in. [2 mm] | Two ^B coils per heat, at any thickness ^A in the heat |
| 1/16 in. [2 mm] or more | Two ^B coils per heat, one at the minimum thickness ^A in the heat and one at the maximum thickness ^A in the heat |

^AThickness means the specified thickness, diameter, or comparable dimension, whichever is appropriate for the specific structural product rolled.

^BOne coil, if the product of only one coil is to be qualified.



五矿营口中板有限责任公司
Minmetals Yingkou Medium Plate Co., Ltd.

产品质量证明书

INSPECTION CERTIFICATE




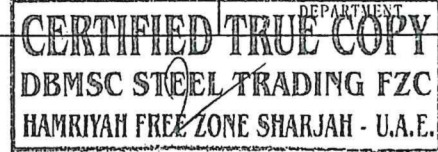
辽宁省营口市老边区冶金街/115005
Yejin street, Laobiandistrict, Yingkou,
Liaoning, P. R. China/115005
TEL:0417-3256081 FAX:0417-3256057
NO.: DT2101501/A



| | | | | | |
|---------------------|---|---------------------------|---|------------------------|----------------------|
| 订货单位(PURCHASER) | DBMSC-STEEL FZCO. | 产品名称(PRODUCT) | 热轧合金钢板 Prime newly produced Hot Rolled alloy Steel Plates | 证明书编号(CERTIFICATE NO.) | D070015082019B073036 |
| 收货单位(CONSIGNEE) | DBMSC-STEEL FZCO. | 交货状态 (DELIVERY CONDITION) | 热轧 (AR) | 签发日期 (DATE OF ISSUE) | 2019-07-09 |
| 合同编号 (CONTRACT NO.) | YGCKB35190409382-A-02 | 技术条件 (SPECIFICATION) | ASTM A572/A572M | 牌号 GRADE | A 572 Gr. 50 |
| 车号 (TRAIN NO.) | 辽H 23050; 辽H22578; 辽HC2763; 辽HK0803; 辽HC3023; 辽HJ1225; 辽H22389; 辽HD1153; 辽H22388; 辽HC1916; 辽HD1155; 辽HK1002; 辽HD1180; 辽HD1178; 辽HK2891; | | | | |

| 炉号 HEAT NO. | 批号BATCH NO. | 规格尺寸(mm) DIMENSION | | | 件数 PIECES | 重量 (ton) WEIGHT | 拉伸试验TENSILE TEST | | | | | 弯曲试验 BEND TEST | 冲击功AKV (J) IMPACT ENERGY | | | 探伤检验UT TEST | | | | | |
|----------------|--------------|-----------------------|------|------|--------------|-----------------------|------------------|------------------|-----------------|-------------------|------------|----------------------|--------------------------|-----------------|--------------------|----------------|-----|-------------|--------------|------------|--|
| | | T | W | L | | | 屈服ReH (N/mm2) | 屈服ReL (N/mm2) | 屈服Rp (N/mm2) | 抗拉强度 Rm(N/mm2) | 原始标 距LO | | 伸长率A (%) | 尺寸SIZE (mm2) | 温度 TEMP (°C) | 纵向longitudinal | | 级别 LEVEL | 结果 RESULT | 标准STANDARD | |
| 19105410A | 1955874 | 12 | 2000 | 6000 | 16 | 18.080 | | | 370 | 530 | | 24 | 合格OK | 10×10 | 20 | 162 | 182 | 188 | | | |
| 19205764A | 1960419 | 12 | 2000 | 6000 | 1 | 1.130 | | | 400 | 545 | | 25.5 | 合格OK | 10×10 | 20 | 156 | 145 | 156 | | | |
| 19205561A | 1955588 | 12 | 2000 | 6000 | 12 | 13.560 | | | 370 | 530 | | 24.5 | 合格OK | 10×10 | 20 | 189 | 178 | 205 | | | |
| 19205529D | 201905260214 | 25 | 2000 | 6000 | 6 | 14.130 | | | 395 | 565 | | 22.5 | 合格OK | 10×10 | 20 | 207 | 198 | 194 | | | |
| 合计(TOTAL) | | | | | 35 | 46.900 | | | | | | | | | | | | | | | |

| 批号 BATCH NO. | 化学成分CHEMICAL COMPOSITION (%) | | | | | | | | | | | | | | | | | | |
|-----------------|------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-----|------|--|--|
| | C | Si | Mn | P | S | Als | Al | Cr | Ni | Cu | N | Mo | V | Ti | Nb | ceq | CEV | | |
| 1955874 | 0.17 | 0.26 | 1.00 | 0.027 | 0.006 | 0.035 | 0.038 | 0.302 | 0.006 | 0.005 | 0.0063 | 0.002 | 0.003 | 0.017 | 0.012 | | 0.40 | | |
| 1960419 | 0.19 | 0.30 | 1.04 | 0.026 | 0.006 | 0.031 | 0.033 | 0.309 | 0.025 | 0.009 | 0.0047 | 0.002 | 0.004 | 0.013 | 0.013 | | 0.42 | | |
| 1955588 | 0.18 | 0.28 | 1.05 | 0.018 | 0.002 | 0.036 | 0.038 | 0.302 | 0.008 | 0.003 | 0.0052 | 0.004 | 0.003 | 0.018 | 0.013 | | 0.42 | | |
| 201905260214 | 0.19 | 0.28 | 0.94 | 0.026 | 0.004 | 0.040 | 0.046 | 0.303 | 0.003 | 0.011 | 0.0046 | 0.003 | 0.004 | 0.015 | 0.014 | | 0.40 | | |

| | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|------------------------------------|--|--|--|--|--|--|--|
| 备注 NOTE: | ACCORDING TO EN10204 3.1; A1=A1t; t≤40mm, L0=200; t>40mm, L0=50; FULLY KILLED&FINE GRAINED PRACTISE&BOF | | | | | | | | | | | | | | | | | |
|  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. |  | | | | | | | | | | 操作人员 OPERATOR 刘湘营 Liu XiangYing | | | 冶金技术处处长 DIRECTOR OF METALLURGICAL DEPARTMENT  | | | | |
| |  | | | | | | | | | | | | | | | | | |

By Think Project

By Hardcopy

NA

EPC Contractor SEGC QC Supervisor Comments for inspection:

Passed

Passed with Punch list/Comments

Reject and Resubmit

*Mic From Minmetal Yingkou medium plates to Ltd -> rejected, require demo
demile test.

attached test reports reviewed and accepted
Date: 5/3/2024

Signature:

Owner's Representative Comments for inspection: