



# Mill Test Certificate

Certificate No. : 210612-FH01KS-0008A1-0005  
Date of Issue : Jun., 25, 2021

Order No. : 01S4970491

PO No. : 2106-24.969 (24.969)  
Commodity : HR COIL

Supplier : POSCO INTERNATIONAL CORPORATION

Customer : SUNBELT GROUP

Spec & Type : ASTM A1011-SS33

| Size                      | Product No. | Quantity | Weight (kg) (lb)          | Heat No. | Country of Melt & Pour | Position | Tensile Test |         |        | Bend Test | Division | Chemical Composition |        |        |        |        |        |        |        |        |        |        |       |       |  |
|---------------------------|-------------|----------|---------------------------|----------|------------------------|----------|--------------|---------|--------|-----------|----------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--|
|                           |             |          |                           |          |                        |          | YP (kg)      | TS (kg) | EL (%) |           |          | C (%)                | Si (%) | Mn (%) | P (%)  | S (%)  | Cr (%) | Ni (%) | Cu (%) | Mo (%) | Nb (%) | Ti (%) | V (%) |       |  |
| 2.98x1524xC               | HQS159390   | 1        | 21,490 (47,377)           | SG67832  | KOR                    | B        | 291          | 440     | 33     | Good      | L        | 0.1369               | 0.005  | 0.494  | 0.0101 | 0.0036 | 0.018  | 0.013  | 0.043  | 0.003  | 0.000  | 0.0004 | 0.000 | 0.000 |  |
| 10x40 Sub Total (090) *** |             | 5        | 107,120 (kg) 236,156 (lb) |          |                        |          |              |         |        |           |          |                      |        |        |        |        |        |        |        |        |        |        |       |       |  |
| 3.37x1219xC               | HQS102790   | 1        | 20,210 (44,555)           | SG66900  | KOR                    | B        | 267          | 414     | 36     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102830   | 1        | 20,600 (45,415)           | SG66900  | KOR                    | B        | 267          | 414     | 36     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102850   | 1        | 20,380 (44,930)           | SG66900  | KOR                    | B        | 267          | 414     | 36     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102880   | 1        | 20,130 (44,378)           | SG66900  | KOR                    | B        | 267          | 414     | 36     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102890   | 1        | 20,510 (45,216)           | SG66900  | KOR                    | B        | 267          | 414     | 36     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102780   | 1        | 20,260 (44,665)           | SG66900  | KOR                    | B        | 268          | 416     | 37     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102800   | 1        | 20,460 (45,106)           | SG66900  | KOR                    | B        | 268          | 416     | 37     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102810   | 1        | 20,470 (45,128)           | SG66900  | KOR                    | B        | 268          | 416     | 37     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102820   | 1        | 20,450 (45,084)           | SG66900  | KOR                    | B        | 268          | 416     | 37     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102840   | 1        | 20,410 (44,996)           | SG66900  | KOR                    | B        | 268          | 416     | 37     | Good      | L        | 0.1281               | 0.004  | 0.433  | 0.0117 | 0.0047 | 0.021  | 0.010  | 0.023  | 0.002  | 0.000  | 0.0004 | 0.000 | 0.001 |  |
| 3.37x1219xC               | HQS102860   | 1        | 19,580 (43,166)           | SG66904  | KOR                    | B        | 270          | 413     | 34     | Good      | L        | 0.1250               | 0.005  | 0.483  | 0.0076 | 0.0037 | 0.011  | 0.013  | 0.027  | 0.002  | 0.001  | 0.0006 | 0.000 | 0.000 |  |
| 3.37x1219xC               | HQS102870   | 1        | 20,340 (44,841)           | SG66904  | KOR                    | B        | 270          | 413     | 34     | Good      | L        | 0.1250               | 0.005  | 0.483  | 0.0076 | 0.0037 | 0.011  | 0.013  | 0.027  | 0.002  | 0.001  | 0.0006 | 0.000 | 0.000 |  |

\* Position - T : Top, M : Middle, B : Bottom

\* Tensile Test Direction : Longitudinal, Gauge Length : 50 mm (Rectangular),

\* YP Method : 0.2 % off-set

\* Bend Test - Direction : Longitudinal, Angle : 90°

\* Division - L : Ladle Analysis

We hereby certify that the material herein has been made in accordance with the order and is fully in compliance.

This material has been fully killed and made by basic oxygen process.

Test Certificate is issued according to ISO 10474/EN 10204 3.1.

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.

Surveyor To :

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Chief of material testing section

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