

# 검사증명서

## MILL TEST CERTIFICATE



당진개원소 : 충남 당진시 송악읍 북부산업로 1480  
1480 Bukbusanup-Ro, Songak-Eup, Dangjin-Si, Chungnam, Korea



주문번호  
Order No. : E240800510

품명  
Commodity : Hot Rolled Coil

제품규격  
Specification : ASTM A1011 CS TYPE B

고객사  
Customer

주문자  
Contractor : HYUNDAI CORPORATION (USA)

증명서 번호  
Certificate No. : 20241101-HS-0005-008

발행일자  
Date of Issue : 2024-11-01

| 제품치수<br>Dimension<br>(inch) | 수량<br>Quantity | 중량<br>Weight<br>(Kg) | 제강번호<br>Heat No. | 제품번호<br>Product No. | Position | 인장시험<br>Tensile Test |             |     |       |     |     |           | 화학성분<br>Chemical Composition(%) |     |    |     |     |    |    |    |   |    |    |    |    |    | 단위 Unit |    |    |       |  |  |  |  |  |
|-----------------------------|----------------|----------------------|------------------|---------------------|----------|----------------------|-------------|-----|-------|-----|-----|-----------|---------------------------------|-----|----|-----|-----|----|----|----|---|----|----|----|----|----|---------|----|----|-------|--|--|--|--|--|
|                             |                |                      |                  |                     |          | YP                   | TS          | EL  | YP-EL | RA  | YR  | YP<br>Mtd | Division                        | C   | Si | Mn  | P   | S  | Cr | Ni | B | Cu | Mo | N  | Nb | Ti | V       | Sn | Al | Total |  |  |  |  |  |
|                             |                |                      |                  |                     |          | (KSI)                | (%)         | (%) | (%)   | (%) | (%) |           |                                 | 4   | 3  | 3   | 4   | 4  | 2  | 2  | 4 | 3  | 2  | 4  | 3  | 3  | 3       | 3  | 3  | 3     |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,780               | V20390           | CWA02100            | B        | 37.1                 | 56.4        | 33  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,640               | V20390           | CWA04580            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,680               | V20390           | CWA04590            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,660               | V20390           | CWA06090            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,560               | V20390           | CWA06100            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,570               | V20390           | CWA07430            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,570               | V20390           | CWA07440            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,290               | V20390           | CWA074501           | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,660               | V20390           | CWA14580            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,860               | V20390           | CWA14600            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,790               | V20390           | CWA20830            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| 0.1159" NOM x 48" x C       | 1              | 20,620               | V20390           | CWA22260            | B        | 34.7                 | 56.0        | 36  |       |     |     | 2         | L                               | 746 | 12 | 464 | 135 | 74 | 3  | 1  | 2 | 11 | 0  | 52 | 1  | 1  | 1       | 1  | 36 | 37    |  |  |  |  |  |
| *** Sub Total(OCB) ***      |                |                      |                  |                     |          | 12                   | 247,680(Kg) |     |       |     |     |           |                                 |     |    |     |     |    |    |    |   |    |    |    |    |    |         |    |    |       |  |  |  |  |  |

NOTE

- \* Position - T:Top, M:Middle, B:Bottom
- \* Tensile test - Direction:Longitudinal, Gauge length:50mm (Rectangular), YP Mtd : 2 (0.2% off-set), 5 (0.5% underload), U (Upper yield point), L (Lower yield point)
- \* Division - P:Product analysis, L:Ladle analysis

\* MELTED AND Poured IN REPUBLIC OF KOREA

상기의 제품은 검사의 결과 지정된 규격에 합격한 것을 증명합니다.  
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND THE REQUIREMENTS

Signature  
T.S. Jang  
Chief Of Hot Rolled Quality Team

\* 본 검사증명서는 원본의 전자문서(전자서명 정보 포함)로부터 출력된 사본입니다. 전자문서의 내용은 현대제철 고객포탈에서 확인하실 수 있습니다.(http://sm.hyundai-steel.com/cs/cm/login.jsp)  
\* This Mill Test Certificate is a copy that has been printed from original electronic document(with digital signing).  
\* You are able to check an original electronic document at hyundai-steel's customer portal.( http://sm.hyundai-steel.com/cs/cm/login.jsp) \* QRcode scanner App : 'QReal'  
\* [사용상 주의사항] 본 검사증명서에 열거된 규격 외 사용시 제품손상 및 안전상 문제가 발생할 수 있습니다.  
\* [Caution for Use] Damage on products and safety problems may arise if used other than to the spec stated in this Mill Test Certification.

P.O. # P0254975-06  
11 ga 48x96  
HEAT # U20390