# 검 사 증 명 서
# MILL TEST CERTIFICATE

HYUNDAI STEEL

당진제철소 : 충남 당진시 송악읍 북무산업로 1480
1480 Bukbusaneop-Ro, Songak-Eup, Dangjin-Si, Chungnam, Korea

주문번호 Order No. : F190200220

품 명 Commodity : Pickling & Oiling Coil

고객사 Customer : HANWA

증명서 번호 Certificate No. : 20190326-NN-402-001

적용규격 Specification : ASTM A1011M-CS TYPE B

주문자 Contractor : HANWA KOREA CO., LTD

발행일자 Date of Issue : 2019-03-26

| 제품치수 Dimension | 수량 Quantity | 중량 Weight (Kg) | 제강번호 Heat No. | 제품번호 Product No. | 인장시험 Tensile Test | | | QUALITY | CHEMICAL TREATMENT | n | 화학성분 Chemical Composition(%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YP | TS | EL | | | | C | Si | Mn | P | S | Sol-Al | Cr | Ni | Cu | Mo | Nb | Ti | V |
| | | | | | (N/mm²) | | (%) | | | | 4 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 |
| 1.65 X 942 X C | 1 | 10,360 | R03747 | BZ49724A | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,410 | R03747 | BZ49724B | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,510 | R03747 | BZ49725A | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,610 | R03747 | BZ49725B | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,560 | R03747 | BZ49726A | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,560 | R03747 | BZ49726B | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,440 | R03747 | BZ49727A | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,460 | R03747 | BZ49727B | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,170 | R03747 | BZ49728A | 261 | 387 | 31 | H | | 0.20 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,260 | R03747 | BZ49728B | 261 | 387 | 31 | H | | 0.20 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,170 | R03747 | BZ49729A | 261 | 387 | 31 | H | | 0.20 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,250 | R03747 | BZ49729B | 261 | 387 | 31 | H | | 0.20 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,520 | R03747 | BZ49730A | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| 1.65 X 942 X C | 1 | 10,580 | R03747 | BZ49730B | 250 | 348 | 36 | H | | 0.22 | 420 | 15 | 192 | 140 | 20 | 22 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |

단위 Unit 2 : x100 3 : x1,000 4 : x10,000 5 : x100,000

*** Sub Total(001) *** 14 145,830(Kg)

*** Lot Total *** 14 145,830(Kg) PO/Contract No. : '19.05 PYRAMID

*** Grade Total *** 14 145,830(Kg)

NOTE

- CHEMICAL TREATMENT
  XX:No Treatment MG:Cr-FREE AFP(conducitivity) CF:Cr-Free for Automobile SL,SM:Cr + Urethane
  CH,CL,CM:Cr Coated PL,PF:Cr-FREE Phosphated EF,FM,GF:Cr-Free PX:Phosphated
  LP,LG,RM:Organic Resin MF:Cr-Free AFT(Phosphated) AF:Resin film for Fuel Tank(Automobile)
- Oil Treatment L:Light Oiled G:General Oiled H:Heavy Oiled D:Dos Oiled

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 Y. H Kim
Chief Of Quality Assurance Team

* 본 검사증명서는 원문인 전자문서(전자서명 정보 포함)로부터 출력된 사본입니다. 전자문서의 내용은 현대제철 고객포탈에서 확인하실 수 있습니다.(http://sm.hyundai-steel.com/cs/cm/login.jsp)
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You are able to check an original electronic document at hyundaisteel's customer portal.( http://sm.hyundai-steel.com/cs/cm/login.jsp) * QRcode scanner App : 'QReal'
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* [Caution for use] Damage on products and safety problems may arise if used other than to the spec stated in this Mill Test Certification.