검 사 증 명 서
MILL TEST CERTIFICATE

HYUNDAI STEEL

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

주문번호 Order No. : E200300496

품 명 Commodity : Thin Slab Hot Rolled Coil

제품규격 Specification : ASTM A 36

고객사 Customer : HYUNDAI STEEL USA, INC

주문자 Contractor : HYUNDAI STEEL USA, INC

증명서 번호 Certificate No. : 20200330-HS-001-004

발행일자 Date of Issue : 2020-04-06

제품치수 Dimension (mm)	수량 Quantity	중량 Weight (Kg)	제강번호 Heat No.	제품번호 Product No.	Position	인장시험 Tensile Test YP (N/mm²)	TS (N/mm²)	EL (%)	YP-EL (%)	RA (%)	YR (%)	YP Mtd	화학성분 Chemical Composition (%) 단위 Unit 2:x100 3:x1,000 4:x10,000 5:x100,000 Division	C 4	Si 3	Mn 3	P 4	S 4
12.0x1219xC	1	19,920	R45389	CQS28000	B	287.3	470.4	38				2	L	1,798	15	812	136	53
12.0x1219xC	1	24,140	R45380	KQS18530	B	271.1	466.9	33				2	L	1,751	16	705	160	58
12.0x1219xC	1	24,000	R45441	KQS21520	B	254.4	450.8	38				2	L	1,778	15	746	137	72
12.0x1219xC	1	24,070	R45432	KQS21530	B	263.9	468.7	36				2	L	1,773	19	735	111	72
12.0x1219xC	1	24,060	R45432	KQS21540	B	259.8	461.7	37				2	L	1,773	19	735	111	72
12.0x1219xC	1	23,050	R45435	KQS21550	B	261.0	458.3	35				2	L	1,721	15	731	95	64
12.0x1219xC	1	24,110	R45435	KQS21580	B	261.0	458.3	35				2	L	1,721	15	731	95	64
12.0x1219xC	1	24,140	R45441	KQS21660	B	254.4	450.8	38				2	L	1,778	15	746	137	72
12.0x1219xC	1	23,720	R45432	KQS32610	B	259.8	461.7	37				2	L	1,773	19	735	111	72
12.0x1219xC	1	24,150	R45846	KQS42940	B	265.5	455.7	38				2	L	1,816	18	721	135	45
*** Sub Total(004) ***	10	235,360(Kg)																

NOTE
- Position - T:Top, M:Middle, B:Bottom
- Tensile test - Direction:Transverse, 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

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 S. B. Park
Chief Of Quality Assurance Team