



Mill Test Certificate

Certificate No. : 211212-FH01KS-0001A1-0002
Date of Issue : Dec., 22, 2021

Order No. : 01S5290346

PO No. : 2112-25.243

(25.243)
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 (We)	TS (%)	EL (%)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)	Se+Al (%)
1.47x1219xC	HQY126650	1	15,490 34,149	SQ83663	KOR	B	309	461	31	Good	L	0.1542	0.008	0.496	0.0140	0.0031	0.018	0.008	0.023	0.002	25	0.001	0.0005	0.001	0.022
1.47x1219xC	HQY126660	1	14,390 31,724	SQ83663	KOR	B	299	457	31	Good	L	0.1542	0.008	0.496	0.0140	0.0031	0.018	0.008	0.023	0.002	25	0.001	0.0005	0.001	0.022
1.47x1219xC	HQY126680	1	15,920 35,097	SQ83663	KOR	B	334	477	23	Good	L	0.1445	0.006	0.511	0.0096	0.0034	0.014	0.013	0.028	0.003	30	0.001	0.0006	0.001	0.028
1.47x1219xC	HQY126760	1	15,350 33,840	SQ83663	KOR	B	296	449	32	Good	L	0.1445	0.006	0.511	0.0096	0.0034	0.014	0.013	0.028	0.003	30	0.001	0.0006	0.001	0.028
1.47x1219xC	HQY126840	1	15,740 34,700	SQ83663	KOR	B	296	449	32	Good	L	0.1445	0.006	0.511	0.0096	0.0034	0.014	0.013	0.028	0.003	30	0.001	0.0006	0.001	0.028
1.47x1219xC	HQY126850	1	15,920 35,097	SQ83663	KOR	B	296	449	32	Good	L	0.1445	0.006	0.511	0.0096	0.0034	0.014	0.013	0.028	0.003	30	0.001	0.0006	0.001	0.028
1.47x1219xC	HQY126870	1	15,780 34,788	SQ83663	KOR	B	296	449	32	Good	L	0.1445	0.006	0.511	0.0096	0.0034	0.014	0.013	0.028	0.003	30	0.001	0.0006	0.001	0.028
*** Sub Total (010) ***		7	108,590 (kg)	239,395 (lb)																					
1.86x1219xC	HQY126590	1	20,110 44,334	SQ83663	KOR	B	304	462	30	Good	L	0.1542	0.008	0.496	0.0140	0.0031	0.018	0.008	0.023	0.002	25	0.001	0.0005	0.001	0.022
1.86x1219xC	HQY126600	1	20,200 44,533	SQ83663	KOR	B	304	462	30	Good	L	0.1542	0.008	0.496	0.0140	0.0031	0.018	0.008	0.023	0.002	25	0.001	0.0005	0.001	0.022
1.86x1219xC	HQY126520	1	20,160 44,445	SQ83655	KOR	B	297	443	32	Good	L	0.1500	0.006	0.491	0.0113	0.0026	0.014	0.010	0.019	0.002	41	0.000	0.0010	0.001	0.028
1.86x1219xC	HQY126530	1	19,950 43,982	SQ83655	KOR	B	297	443	32	Good	L	0.1500	0.006	0.491	0.0113	0.0026	0.014	0.010	0.019	0.002	41	0.000	0.0010	0.001	0.028
1.86x1219xC	HQY126820	1	20,190 44,511	SQ83663	KOR	B	293	444	32	Good	L	0.1445	0.006	0.511	0.0096	0.0034	0.014	0.013	0.028	0.003	30	0.001	0.0006	0.001	0.028

* 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 :

Ko Jae Gom
 KO JAE GON

POSCO

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Chief of material testing section