



# Mill Test Certificate

Certificate No. : 220113-FH01KS-0101A1-0003

Date of Issue : Jan., 21, 2022

Order No. : 01S5323170

PO No. : 2201-25.281

Supplier : POSCO INTERNATIONAL CORPORATION

Commodity : HR COIL <sup>(25.281)</sup>

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 (MPa)	TS (%)	EL (%)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
1.47x1219xC	HQZ076270	1	15,530	SQ85539	KOR	B	321	469	31	Good	L	0.1335	0.010	0.490	0.0106	0.0039	0.017	0.010	0.029	0.003	33	0.001	0.0003	0.000	0.035
1.47x1219xC	HQZ076250	1	15,920	SQ85542	KOR	B	255	404	31	Good	L	0.1317	0.007	0.482	0.0097	0.0042	0.016	0.012	0.033	0.002	32	0.001	0.0006	0.000	0.036
1.47x1219xC	HQZ076260	1	16,010	SQ85542	KOR	B	255	404	31	Good	L	0.1317	0.007	0.482	0.0097	0.0042	0.016	0.012	0.033	0.002	32	0.001	0.0006	0.000	0.036
1.47x1219xC	HQZ076230	1	16,050	SQ85542	KOR	B	280	427	26	Good	L	0.1317	0.007	0.482	0.0097	0.0042	0.016	0.012	0.033	0.002	32	0.001	0.0006	0.000	0.036
1.47x1219xC	HQZ076240	1	15,790	SQ85542	KOR	B	280	427	26	Good	L	0.1317	0.007	0.482	0.0097	0.0042	0.016	0.012	0.033	0.002	32	0.001	0.0006	0.000	0.036
1.47x1219xC	HQZ076370	1	15,660	SQ85548	KOR	B	273	429	34	Good	L	0.1295	0.007	0.457	0.0082	0.0037	0.017	0.009	0.019	0.002	34	0.001	0.0007	0.000	0.028
*** Sub Total (010) ***		6	94,960 (kg)	209,347 (lb)																					
1.86x1219xC	HPZ075740	1	20,120	SP11190	KOR	B	326	470	30	Good	L	0.1445	0.006	0.486	0.0106	0.0041	0.025	0.014	0.028	0.005	31	0.001	0.0004	0.000	0.020
1.86x1219xC	HPZ075750	1	19,850	SP11190	KOR	B	326	470	30	Good	L	0.1445	0.006	0.486	0.0106	0.0041	0.025	0.014	0.028	0.005	31	0.001	0.0004	0.000	0.020
1.86x1219xC	HPZ076290	1	19,900	SP11190	KOR	B	315	450	32	Good	L	0.1445	0.006	0.486	0.0106	0.0041	0.025	0.014	0.028	0.005	31	0.001	0.0004	0.000	0.020
1.86x1219xC	HPZ076300	1	19,940	SP11190	KOR	B	315	450	32	Good	L	0.1445	0.006	0.486	0.0106	0.0041	0.025	0.014	0.028	0.005	31	0.001	0.0004	0.000	0.020
1.86x1219xC	HPZ076310	1	17,800	SP11190	KOR	B	315	450	32	Good	L	0.1445	0.006	0.486	0.0106	0.0041	0.025	0.014	0.028	0.005	31	0.001	0.0004	0.000	0.020
*** Sub Total (030) ***		5	97,610 (kg)	215,190 (lb)																					

\* 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.

P.O. # P0233364-01  
 1484 48x96  
 HEAT # SP11190

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

Surveyor To :

Park, Junyoung