



# Mill Test Certificate

Certificate No. : 220113-FH01KS-0101A1-0007

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 &amp; 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 (%)
3.30x1219xC	HQZ076130	1	19,940 43,960	SQ85539	KOR	B	276	428	34	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
3.30x1219xC	HQZ076140	1	19,920 43,915	SQ85539	KOR	B	276	428	34	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
*** Sub Total (090) ***		10	199,610 (kg) 440,059 (lb)																						
3.30x1524xC	HQZ084030	1	20,650 45,525	SQ85643	KOR	B	292	443	31	Good	L	0.1465	0.004	0.508	0.0111	0.0032	0.018	0.011	0.027	0.003	39	0.001	0.0006	0.000	0.031
3.30x1524xC	HQZ084060	1	20,950 46,186	SQ85643	KOR	B	292	443	31	Good	L	0.1465	0.004	0.508	0.0111	0.0032	0.018	0.011	0.027	0.003	39	0.001	0.0006	0.000	0.031
3.30x1524xC	HQZ084010	1	21,060 46,429	SQ85643	KOR	B	305	460	32	Good	L	0.1465	0.004	0.508	0.0111	0.0032	0.018	0.011	0.027	0.003	39	0.001	0.0006	0.000	0.031
3.30x1524xC	HQZ084040	1	21,010 46,318	SQ85643	KOR	B	305	460	32	Good	L	0.1465	0.004	0.508	0.0111	0.0032	0.018	0.011	0.027	0.003	39	0.001	0.0006	0.000	0.031
3.30x1524xC	HQZ084100	1	20,410 44,996	SQ85646	KOR	B	287	430	31	Good	L	0.1409	0.004	0.498	0.0111	0.0035	0.020	0.012	0.027	0.003	32	0.001	0.0007	0.000	0.027
3.30x1524xC	HQZ084150	1	20,960 46,208	SQ85646	KOR	B	287	430	31	Good	L	0.1409	0.004	0.498	0.0111	0.0035	0.020	0.012	0.027	0.003	32	0.001	0.0007	0.000	0.027
3.30x1524xC	HQZ084090	1	20,850 45,966	SQ85646	KOR	B	302	456	32	Good	L	0.1409	0.004	0.498	0.0111	0.0035	0.020	0.012	0.027	0.003	32	0.001	0.0007	0.000	0.027
3.30x1524xC	HQZ084170	1	21,070 46,451	SQ85646	KOR	B	302	456	32	Good	L	0.1409	0.004	0.498	0.0111	0.0035	0.020	0.012	0.027	0.003	32	0.001	0.0007	0.000	0.027
3.30x1524xC	HQZ084190	1	20,910 46,098	SQ85646	KOR	B	302	456	32	Good	L	0.1409	0.004	0.498	0.0111	0.0035	0.020	0.012	0.027	0.003	32	0.001	0.0007	0.000	0.027
*** Sub Total (100) ***		9	187,870 (kg) 414,177 (lb)																						
*** Grade Total ***		57	1,122,150 (kg)	2,473,878 (lb)																					
*** Grand Total ***		69	1,361,660 (kg)	3,001,899 (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

P.O. # P0233364-01  
10ga 60x120  
HEAT # SQ85643

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 :

Park, Junyoung