

Certificate No. : 230422-FH01KS-0023A1-0007  
Date of Issue : May., 02, 2023

# Mill Test Certificate



Order No. : 01S6033869

PO No. : 2304-25.770 (25.770)

Supplier : POSCO INTERNATIONAL CORPORATION

Commodity : HR COIL

JP

Spec & Type : ASTM A36

Size	Product No.	Quantity	Weight (kg) (lb)	Heat No.	Country of Melt & Pour	Position	Tensile Test			Division	Chemical Composition											
							YP (kg)	TS (%)	EL (%)		C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	Nb (%)	V (%)	Se-Al (%)
6.37x1829xC	HTQ063860	1	20,600 (45,415)	SU99235	KOR	B	288	458	31	L	0.1522	0.007	0.681	0.0083	0.0043	0.030	0.018	0.031	0.004	0.000	0.000	0.023
*** Sub Total (060) ***		16	320,450 (kg)	706,460 (lb)						P	0.1508	0.006	0.0083	0.0033	0.021	0.009	0.022	0.002	0.000	0.000	0.019	
7.83x1219xC	HQQ062450	1	18,940 (41,755)	SB61059	KOR	B	300	478	34	L	0.1751	0.015	0.773	0.0126	0.0043	0.028	0.009	0.017	0.003	0.001	0.000	0.028
7.83x1219xC	HQQ071840	1	19,420 (42,813)	SB61059	KOR	B	309	486	33	P	0.1751	0.015	0.773	0.0126	0.0043	0.028	0.009	0.017	0.002	0.001	0.000	0.030
7.83x1219xC	HQQ154580	1	19,060 (42,019)	SQ23799	KOR	B	304	482	34	L	0.1762	0.015	0.840	0.0109	0.0055	0.023	0.013	0.019	0.003	0.001	0.000	0.023
*** Sub Total (070) ***		3	57,420 (kg)	126,567 (lb)						P	0.1937	0.009	0.840	0.0136	0.0034	0.020	0.007	0.015	0.004	0.001	0.000	0.025
7.86x1524xC	HQQ129210	1	18,040 (39,771)	SF62312	KOR	B	286	476	32	L	0.1732	0.013	0.760	0.0126	0.0068	0.033	0.016	0.016	0.003	0.001	0.001	0.028
7.86x1524xC	HQQ104740	1	17,770 (39,176)	SQ21996	KOR	B	315	491	31	P	0.1746	0.011	0.757	0.0122	0.0059	0.031	0.017	0.017	0.003	0.001	0.001	0.025
7.86x1524xC	HQQ081430	1	19,760 (43,563)	SQ22834	KOR	B	320	500	29	L	0.1947	0.005	0.757	0.0113	0.0039	0.018	0.013	0.023	0.002	0.001	0.000	0.029
7.86x1524xC	HQQ138520	1	19,960 (44,004)	SQ23782	KOR	B	297	485	31	P	0.1852	0.008	0.758	0.0118	0.0041	0.021	0.011	0.025	0.002	0.001	0.000	0.030
*** Sub Total (080) ***		4	75,530 (kg)	166,514 (lb)						L	0.1906	0.006	0.758	0.0131	0.0042	0.018	0.011	0.020	0.002	0.000	0.000	0.024
9.43x1219xC	HPQ182560	1	21,200 (46,737)	SP48882	KOR	B	301	469	32	P	0.1913	0.009	0.791	0.0119	0.0033	0.015	0.006	0.012	0.002	0.001	0.000	0.022
9.43x1219xC	HPQ182580	1	21,200 (46,737)	SP48882	KOR	B	301	469	32	L	0.1999	0.005	0.791	0.0121	0.0029	0.020	0.015	0.028	0.003	0.000	0.000	0.024
*** Sub Total (090) ***		4	75,530 (kg)	166,514 (lb)						P	0.1979	0.007	0.791	0.0117	0.0027	0.021	0.015	0.028	0.002	0.000	0.000	0.024
9.43x1219xC	HPQ182560	1	21,200 (46,737)	SP48882	KOR	B	301	469	32	L	0.1787	0.015	0.775	0.0131	0.0066	0.021	0.008	0.030	0.006	0.002	0.000	0.022
9.43x1219xC	HPQ182580	1	21,200 (46,737)	SP48882	KOR	B	301	469	32	P	0.1818	0.014	0.775	0.0136	0.0070	0.021	0.010	0.029	0.006	0.001	0.000	0.025
*** Sub Total (090) ***		1	21,200 (46,737)	SP48882	KOR	B	301	469	32	L	0.1787	0.015	0.775	0.0131	0.0066	0.021	0.009	0.030	0.006	0.002	0.000	0.022
9.43x1219xC	HPQ182580	1	21,200 (46,737)	SP48882	KOR	B	301	469	32	P	0.1818	0.014	0.775	0.0136	0.0070	0.021	0.010	0.029	0.006	0.001	0.000	0.025

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.

Position - T : Top, M : Middle, B : Bottom  
\* Tensile Test Direction : Transversal, Gauge Length : 50 mm (Rectangular),  
YP Method : Upper Point  
\* Division - L : Ladle Analysis, P : Products Analysis  
**P.O. # P0242539-08**  
**3/8" 48 X 120**  
**HEAT # SP48882**



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

Surveyor To :

**Park, Junyoung**

Park, Junyoung

Chief of material testing section

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POSCO