



Mill Test Certificate

Certificate No. : 210612-FH01KS-0008A1-0005

Date of Issue : Jun., 25, 2021

Order No. : 01S4970491

PO No. : 2106-24.969

Supplier : POSCO INTERNATIONAL CORPORATION

Commodity : HR COIL ^(24.969)

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 (%)	Nb (%)	Ti (%)	V (%)
2.98x1524xC	HQS159390	1	21,490 47,377	SQ67832	KOR	B	291	440	33	Good	L	0.1369	0.005	0.494	0.0101	0.0036	0.018	0.013	0.043	0.003	0.000	0.0004	0.000	
Sub Total (090) ***		5	107,120 (kg) 236,156 (lb)																					
3.37x1219xC	HQS102790	1	20,210 44,555	SQ66900	KOR	B	267	414	36	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102830	1	20,600 45,415	SQ66900	KOR	B	267	414	36	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102850	1	20,380 44,930	SQ66900	KOR	B	267	414	36	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102880	1	20,130 44,378	SQ66900	KOR	B	267	414	36	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102890	1	20,510 45,216	SQ66900	KOR	B	267	414	36	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102780	1	20,260 44,665	SQ66900	KOR	B	268	416	37	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102800	1	20,460 45,106	SQ66900	KOR	B	268	416	37	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102810	1	20,470 45,128	SQ66900	KOR	B	268	416	37	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102820	1	20,450 45,084	SQ66900	KOR	B	268	416	37	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102840	1	20,410 44,996	SQ66900	KOR	B	268	416	37	Good	L	0.1281	0.004	0.433	0.0117	0.0047	0.021	0.010	0.023	0.002	0.000	0.0004	0.001	
3.37x1219xC	HQS102860	1	19,580 43,166	SQ66904	KOR	B	270	413	34	Good	L	0.1250	0.005	0.483	0.0076	0.0037	0.011	0.013	0.027	0.002	0.001	0.0006	0.000	
3.37x1219xC	HQS102870	1	20,340 44,841	SQ66904	KOR	B	270	413	34	Good	L	0.1250	0.005	0.483	0.0076	0.0037	0.011	0.013	0.027	0.002	0.001	0.0006	0.000	

* 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 Gon