

# POSCO

## Mill Test Certificate

Certificate No. : 141223-FK01-PS-00001-0002  
 Date of Issue : Dec., 24, 2014  
 Surface Finish : Dull

Order No. : 01S1390123

PO No. : 01S1390123

Supplier : DAE WOO INTERNATIONAL CORP.

Commodity : TITANIUM CR COIL

Customer : GRANDIS TITANIUM

Spec & Type : ASTM-B265 GRADE2

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Hardness HV	Band Test	Division	Chemical Composition (%)											
						YS (MPa)	TS (MPa)	EL (%)				C	Si	Mn	P	S	Ti	H (ppm)	N (ppm)	O (ppm)	Fe		
0.8x1200xC	QDD0725B	1	2.023	SK50120	T	348	441	28	172B	Good	L	0.0120	0.010	0.010	0.0100	0.0100	0.0100	Balance	3.0	55	980	0.0500	
*** Sub Total (020) ***		1	2.023 (kg)								P							Balance	16.0				
1.0x1200xC	QDE1687B	1	3.393	SK50134	T	365	479	25	171.1	Good	L	0.0100	0.010	0.010	0.0100	0.0100	0.0100	Balance	10.0	50	1020	0.0700	
*** Sub Total (030) ***		1	3.393 (kg)								P							Balance	28.0				
*** Grade Total ***		2	5.416 (kg)																				
*** Grand Total ***		3	8.878 (kg)																				

Position - T : Top, M : Middle, B : Bottom  
 Tensile Test Direction : Transversal, Gauge Length : 50mm(Reckardler),  
 YP Method : 0.2% off-set  
 Bend Test - Direction : Transversal, Angle : 180°  
 Division - L : Ladle Analysis, P : Products Analysis

We hereby certify that the material herein has been made in accordance with the order and above specification.

This Mill Test Certificate cannot be copied for any purpose.

Surveyor To :

M.S. JANG

POSOC

Pohang Works, 6262, Donghaean-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do, 790-785, Korea

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Chief of material testing section

Man Soo, Jang