posco

Mill Test Certificate

Certificate No. : 170625-PO17-S-0019A1-0001

Date of Issue : Jul., 06, 2017

Order No. : 01S2703497

Supplier : POSCO America Corporation

Customer : L M3141629

PO No. : RYL AUG M3141629
(L M3141629)

Commodity : PLATE

Spec & Type : POSCO 1E0650

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test YP (ksi)	Tensile Test TS	Tensile Test EL (%)	Impact Test V Notch -29℃ Energy (Joule)	Reduction Ratio (Slab Thick / Plate Thick)	Division	Chemical Composition C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	B (ppm)	Ca (ppm)
16x2438x6096	PB00307801-7806	6	11,196	SB96662	T	390	495	25	1: 381 2: 399 3: 402 A: 394	18.9	L	0.0825	0.200	1.430	0.0124	0.0027	0.028	0.033	3	0
16x2438x6096	PB00339501-9503	3	5,598	SB96662	T	390	495	25	1: 381 2: 399 3: 402 A: 394	18.9	L	0.0825	0.200	1.430	0.0124	0.0027	0.028	0.033	3	0
16x2438x6096	PB00307901-7906	6	11,196	SB96664	T	387	492	27	1: 413 2: 412 3: 402 A: 409	18.9	L	0.0750	0.179	1.461	0.0121	0.0030	0.029	0.021	2	1
*** Sub Total (010) ***		15	27,990 (kg)																	
*** Heat Treatment ===> Thermo Mechanical Rolling + Accelerated Cooling ***																				
*** Lot Total ***		15	27,990 (kg)			Lot No. ===> 78344														
*** Grade Total ***		15	27,990 (kg)																	
*** Grand Total ***		15	27,990 (kg)																	

=== Last Item ===

CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PCM (B) = C + Si/30 + (Mn + Cu + Cr)/20 + Ni/60 + Mo/15 + V/10 + 5*B

* Position - T : Top, M : Middle, B : Bottom
* Tensile Test Direction : Transversal, Gauge Length : 200㎜(Rectangular), YP Method : 0.2% off-set
* Impact Test Direction : 1/4T Transversal, Full-Size : 10㎜X10㎜
* Division - L : Ladle Analysis
* Supply Condition : As-Rolled unless otherwise Heat Treated.

We hereby certify that the material herein has been made in accordance with the order and above specification.
This material has been fully killed and made by basic oxygen process. This material is fine grained steel.
This material has been made by vacuum degassing process.
No repair welding was performed to the products. Test Certificate is issued according to EN10204 3.1.
Melted and Manufactured in Republic of Korea

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

Surveyor To :

Escaneado con CamScanner

posco

Mill Test Certificate

Certificate No. : [illegible]

Date of Issue : Jul., 06, 2017

Order No. : 01S2703497

PO No. : RYL AUG M3141629 (L M3141629)

Supplier : POSCO America Corporation

Commodity : PLATE

Customer : L M3141629

Spec & Type : POSCO 1E0650

Product No.	Division	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Pb (%)	Sn (%)	Ti (%)	V (%)	Sol-Al (%)	CEQ (%)	PCM (%)
PB00307801-7806	L	0.021	0.051	43	0.009	0.0001	0.001	0.0106	0.002	0.030	0.34	0.17
PB00339501-9503	L	0.021	0.051	43	0.009	0.0001	0.001	0.0106	0.002	0.030	0.34	0.17
PB00307901-7906	L	0.019	0.012	35	0.010	0.0000	0.001	0.0113	0.002	0.030	0.33	0.16
*** Sub Total (010) ***				15	27,990 (kg)							
*** Lot Total ***				15	27,990 (kg)			Lot No. ===> 78344				
*** Grade Total ***				15	27,990 (kg)							
*** Grand Total ***				15	27,990 (kg)							

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