



Mill Test Certificate

Certificate No. : 180330-FZ01PS-0003A1-0001
 Date of Issue : Apr., 06, 2018
 Post Treatment : PL (Cr-Free Phosphate)

Order No. : 01S3085663

Supplier : SUNGJIN CO., LTD.

PO No. : D4B0244

Commodity : EG COIL(ZN)

Customer : STEMCOR

Spec & Type : DIN EN 10152 DC01+ZE

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Coating Weight			Chemical Composition				
						YP (MPa)	TS (MPa)	EL (%)	Zn Upper	Zn Lower	C (%)	Si (%)	Mn (%)	P (%)	S (%)	
1.00x1250xC	CBB6544A	1	13,600	SB18648	B	189	306	40	17.9	17.8	0.0138	0.019	0.148	0.0122	0.0067	
1.00x1250xC	CBB6544B	1	13,490	SB18648	B	189	306	40	17.9	17.8	0.0138	0.019	0.148	0.0122	0.0067	
1.00x1250xC	CBB6545A	1	13,510	SB18648	B	187	305	40	17.4	17.9	0.0138	0.019	0.148	0.0122	0.0067	
1.00x1250xC	CBB6545B	1	13,450	SB18648	B	187	305	40	17.4	17.9	0.0138	0.019	0.148	0.0122	0.0067	
*** Sub Total (010) ***		4	54,050 (kg)			< Not Welded >										
1.00x1500xC	CBC1720A	1	13,790	SB21498	B	179	304	41	17.6	17.4	0.0170	0.020	0.149	0.0074	0.0045	
1.00x1500xC	CBC1720B	1	13,810	SB21498	B	179	304	41	17.6	17.4	0.0170	0.020	0.149	0.0074	0.0045	
*** Sub Total (020) ***		2	27,600 (kg)			< Not Welded >										
1.25x1500xC	CBC1721A	1	13,980	SB21500	B	193	304	41	17.8	17.5	0.0145	0.026	0.130	0.0130	0.0081	
1.25x1500xC	CBC1721B	1	13,940	SB21500	B	193	304	41	17.8	17.5	0.0145	0.026	0.130	0.0130	0.0081	
*** Sub Total (030) ***		2	27,920 (kg)			< Not Welded >										
1.50x1250xC	CBC0768A	1	13,480	SB18645	B	198	302	41	17.9	17.4	0.0143	0.019	0.142	0.0092	0.0064	
1.50x1250xC	CBC0768B	1	13,440	SB18645	B	198	302	41	17.9	17.4	0.0143	0.019	0.142	0.0092	0.0064	
1.50x1250xC	CBC0773A	1	13,320	SB18645	B	199	303	41	17.9	17.3	0.0143	0.019	0.142	0.0092	0.0064	
1.50x1250xC	CBC0773B	1	13,320	SB18645	B	199	303	41	17.9	17.3	0.0143	0.019	0.142	0.0092	0.0064	
*** Sub Total (040) ***		4	53,560 (kg)			< Not Welded >										
1.50x1500xC	CBC1722A	1	13,920	SB21500	B	199	304	41	17.9	17.2	0.0145	0.026	0.130	0.0130	0.0081	
1.50x1500xC	CBC1722B	1	13,700	SB21500	B	199	304	41	17.9	17.2	0.0145	0.026	0.130	0.0130	0.0081	
*** Sub Total (050) ***		2	27,620 (kg)			< Not Welded >										
2.00x1250xC	CBC1628A	1	14,000	SB21498	B	225	315	39	18.0	17.1	0.0170	0.020	0.149	0.0074	0.0045	
2.00x1250xC	CBC1628B	1	14,090	SB21498	B	225	315	39	18.0	17.1	0.0170	0.020	0.149	0.0074	0.0045	
*** Sub Total (060) ***		2	28,090 (kg)			< Not Welded >										

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

* Position - T : Top, M : Middle, B : Bottom
 * Tensile Test Direction : Transversal, Gauge Length : 80mm(Rectangular),
 YP Method : Upper Point
 * Division - L : Ladle Analysis

Test Certificate is issued according to EN10204 3.1.

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

Surveyor To :

S.S. Ahn



Mill Test Certificate

Certificate No. : 180330-FZ01PS-0003A1-0002
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PO No. : D4B0244

Commodity : EG COIL(ZN)

Customer : STEMCOR

Spec & Type : DIN EN 10152 DC01+ZE

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Coating Metal Bend Test	Coating Weight (g/m ²)			Division	Chemical Composition				
						YP (MPa)	TS (MPa)	EL (%)		Zn Upper	Zn Lower	C (%)		Si (%)	Mn (%)	P (%)	S (%)	
0.75x1250xC	CBB6543A	1	13,780	SB18645	B	172	307	40	Good	18.4	18.8	L	0.0143	0.019	0.142	0.0092	0.0064	
0.75x1250xC	CBB6543B	1	13,550	SB18645	B	172	307	40	Good	18.4	18.8	L	0.0143	0.019	0.142	0.0092	0.0064	
0.75x1250xC	CBC1196A	1	11,580	SB18645	B	168	305	41	Good	18.0	18.3	L	0.0143	0.019	0.142	0.0092	0.0064	
0.75x1250xC	CBC1196B	1	11,580	SB18645	B	168	305	41	Good	18.0	18.3	L	0.0143	0.019	0.142	0.0092	0.0064	
*** Sub Total (070) ***						< Not Welded >												
*** Grade Total ***						50,490 (kg)												
*** Grand Total ***						269,330 (kg)												
						269,330 (kg)												
						=== Least Item ===												

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 * Division - L : Ladle Analysis

Test Certificate is issued according to EN10204 3.1.

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

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Surveyor To :

POSCO

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Chief of material testing section

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