



Mill Test Certificate

Certificate No. : 160715-FD01KS-0115A1-0002
Date of Issue : Jul., 26, 2016

Order No. : 01S2189553

Supplier : SUNGJIN CO., LTD.

PO No. : D4B0148

Commodity : PICKLED AND OILED STEEL COIL

Customer : STEMCOR LONDON LIMITED

Spec & Type : EN10149-2 S355MCD

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Bend Test	Division	Chemical Composition											
						YP (MPa)	TS (MPa)	EL (%)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Nb (%)	Ti (%)	V (%)	Se+Al (%)			
5.0x1500xC	CXF1116A	1	11,820	SQ05841	T	432	493	29	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
5.0x1500xC	CXF1116B	1	12,000	SQ05841	T	432	493	29	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
5.0x1500xC	CXF1167B	1	10,310	SQ05841	T	423	501	27	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
5.0x1500xC	CXF1167C	1	10,860	SQ05841	T	423	501	27	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
... Sub Total (030) ...		4	44,990 (kg)																			
6.0x1500xC	CXF1112A	1	10,410	SQ05841	T	423	494	31	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
6.0x1500xC	CXF1112B	1	11,780	SQ05841	T	423	494	31	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
6.0x1500xC	CXF1482A	1	10,930	SQ05841	T	414	490	31	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
6.0x1500xC	CXF1482B	1	9,070	SQ05841	T	414	490	31	Good	L	0.0644	0.008	0.803	0.0128	0.0026	0.025	0.0009	0.000	0.032			
... Sub Total (040) ...		4	42,190 (kg)																			
... Grade Total ...		16	178,850 (kg)																			
... Grand Total ...		16	178,850 (kg)																			
=== Last Item ===																						

=== Last Item ===

* Position - T : Top, M : Middle, B : Bottom
* Tensile Test Direction : Longitudinal, Gauge Length : 5.65 $\sqrt{A}$. (Rectangular),
YP Method : Upper Point
* Bend Test - Direction : Transversal, Angle : 180°
* Division - L : Ladle Analysis

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 has been made by calcium treated process.
Test Certificate is issued according to EN10204 3.1.

113458



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

Kontino Oy Ab

Surveyor To :

Kim, Young-Ha

POSCO

Gwangyang Works, 20-26, Pokposarang-gil, Gwangyang-si, Jeollanam-do, 57807, Korea

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Chief of material testing section

Kim, Young Ha

2016-11-09

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Citypoint, 1 Ropemaker Street
EC2Y 9ST London
England

Stemcor AB
Bokvägen 14
33332 Smålandsstenar

MATERIALBESKRIVNING

LEV.KVANT.

Ordernr 114063 Pos 10
Material S355MC BO
Dimension 5,00 X 1500,00 X 3000,00
Ert ordernr
Ext.ordernr
Artnr./Märke

5 Pall
59 ST
10 764 Kg Bt
10 714 Kg Nt

Pallnr	Coilnr	Serienr	Vikt/NT	Vikt/BT	Antal
1224763	CXF1167C	231316	2 191	2 201	12
1224764	CXF1167C	231316	2 181	2 191	12
1224765	CXF1167C	231316	2 176	2 186	12
1224766	CXF1167C	231316	2 176	2 186	12
1224768	CXF1167C	231316	1 990	2 000	11

1110069

Ordernr 114063 Pos 20
Material S355MC BO
Dimension 6,00 X 1500,00 X 3000,00
Ert ordernr
Ext.ordernr
Artnr./Märke

5 Pall
48 ST
10 443 Kg Bt
10 393 Kg Nt

Pallnr	Coilnr	Serienr	Vikt/NT	Vikt/BT	Antal
1224769	CXF1482A	231317	2 164	2 174	10
1224770	CXF1482A	231317	2 164	2 174	10
1224771	CXF1482A	231317	2 174	2 184	10
1224772	CXF1482A	231317	2 174	2 184	10
1224773	CXF1482A	231317	1 717	1 727	8

1110069

AT1316180

AT1312160