



# Mill Test Certificate

Certificate No. : 230228-FD01KS-0046A1-0001  
Date of Issue : Mar., 08, 2023

Order No. : 0155966610

PO No. : D4B0315

Supplier : SUNGJIN CO., LTD.

Commodity : PO COIL

Customer : STEMCOR EUROPE

Spec & Type : EN10149 S355MC

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Bend Test	Division	Chemical Composition									
						YP (#s)	TS (#s)	EL (%)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Nb (%)	Ti (%)	V (%)	Sn-Al (%)	
X 5.00x1500xC	CXP1207A	1	14,170	SP45450	T	397	470	36	Good	L	0.0638	0.009	0.727	0.0077	0.0033	0.023	0.0009	0.000	0.026	
	CXP1207B	1	13,920	SP45450	T	397	470	36	Good	L	0.0638	0.009	0.727	0.0077	0.0033	0.023	0.0009	0.000	0.026	
	CXP1337A	1	14,190	SP45450	T	387	464	34	Good	L	0.0638	0.009	0.727	0.0077	0.0033	0.023	0.0009	0.000	0.026	
	CXP1337B	1	13,940	SP45450	T	387	464	34	Good	L	0.0638	0.009	0.727	0.0077	0.0033	0.023	0.0009	0.000	0.026	
*** Sub Total (030) ***		4	56,220 (kg)																	
X 6.00x1500xC	CXP1389A	1	11,700	SP45439	T	398	481	35	Good	L	0.0728	0.009	0.761	0.0098	0.0043	0.026	0.0009	0.000	0.027	
	CXP1389B	1	11,050	SP45439	T	398	481	35	Good	L	0.0728	0.009	0.761	0.0098	0.0043	0.026	0.0009	0.000	0.027	
	CXP1413A	1	11,750	SP45439	T	419	485	34	Good	L	0.0728	0.009	0.761	0.0098	0.0043	0.026	0.0009	0.000	0.027	
X 6.00x1500xC	CXP1413B	1	11,400	SP45439	T	419	485	34	Good	L	0.0728	0.009	0.761	0.0098	0.0043	0.026	0.0009	0.000	0.027	
	*** Sub Total (040) ***		4	45,900 (kg)																
*** Grade Total ***		8	102,120 (kg)																	

\* Position - T : Top, M : Middle, B : Bottom  
\* Tensile Test Direction : Longitudinal, Gauge Length : 5.65 √A<sub>0</sub> (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 is fully in compliance.

This material has been fully killed and made by basic oxygen process.

This material is fine grained steel.

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 :

**Park, Junyoung**