



# Mill Test Certificate

Certificate No. : 200526-FC01KS-0030A1-0001  
Date of Issue : Jun., 02, 2020

Order No. : 01S4306236

PO No. : BHS-BK-HTM-2005

Supplier : POSCO INTERNATIONAL CORPORATION

Commodity : COLD ROLLED COIL

Customer : HTM YHTIOT OY

Spec & Type : EN10130 DC01

ORIGINAL

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Division	Chemical Composition				
						YP (N/mm <sup>2</sup> )	TS (%)	EL (%)		C (%)	SI (%)	Mn (%)	P (%)	S (%)
0.70x918xC	CRE0606A	1	4.310	SU49361	B	250	344	43	L	0.0348	0.002	0.203	0.0116	0.0038
0.70x918xC	CRE0606B	1	4.310	SU49361	B	250	344	43	L	0.0348	0.002	0.203	0.0116	0.0038
0.70x918xC	CRE0606C	1	4.310	SU49361	B	250	344	43	L	0.0348	0.002	0.203	0.0116	0.0038
0.70x918xC	CRE0606D	1	4.310	SU49361	B	250	344	43	L	0.0348	0.002	0.203	0.0116	0.0038
0.70x918xC	CRE0606E	1	4.140	SU49361	B	250	344	43	L	0.0348	0.002	0.203	0.0116	0.0038
0.70x918xC	CRE0604A	1	4.370	SU49362	B	254	347	41	L	0.0341	0.002	0.205	0.0109	0.0044
0.70x918xC	CRE0604B	1	4.380	SU49362	B	254	347	41	L	0.0341	0.002	0.205	0.0109	0.0044
0.70x918xC	CRE0604C	1	4.370	SU49362	B	254	347	41	L	0.0341	0.002	0.205	0.0109	0.0044
0.70x918xC	CRE0604D	1	4.370	SU49362	B	254	347	41	L	0.0341	0.002	0.205	0.0109	0.0044
0.70x918xC	CRE0604E	1	4.300	SU49362	B	254	347	41	L	0.0341	0.002	0.205	0.0109	0.0044
*** Sub Total	(0)10 ***	10	43.170 (kg)			< Not Welded >			L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2126A	1	4.550	SU49362	B	236	345	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2126B	1	4.560	SU49362	B	236	345	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2126C	1	4.570	SU49362	B	236	345	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2126D	1	4.560	SU49362	B	236	345	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2126E	1	4.600	SU49362	B	236	345	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2128A	1	4.550	SU49362	B	231	340	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2128B	1	4.550	SU49362	B	231	340	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2128C	1	4.560	SU49362	B	231	340	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2128D	1	4.550	SU49362	B	231	340	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2128E	1	4.620	SU49362	B	231	340	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2129A	1	4.520	SU49362	B	228	339	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2129B	1	4.550	SU49362	B	228	339	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2129C	1	4.550	SU49362	B	228	339	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2129D	1	4.540	SU49362	B	228	339	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE2129E	1	4.600	SU49362	B	228	339	42	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3741A	1	4.530	SU49362	B	231	344	40	L	0.0341	0.002	0.205	0.0109	0.0044

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

We hereby certify that the material herein has been made in accordance with the order and is fully in compliance.

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

Surveyor To :

POSCO

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

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Chief of material testing section

KO JAE GON

*Ko Jae Gon*



# Mill Test Certificate

Certificate No. : 200526-FC01KS-0030A1-0002  
Date of Issue : Jun., 02, 2020

Order No. : 01S4306236

PO No. : BHS-BK-HTM-2005

Supplier : POSCO INTERNATIONAL CORPORATION

Commodity : COLD ROLLED COIL

Customer : HTM YHTIOT OY

Spec & Type : EN10130 DC01

Size	Product No.	Quantity	Weight (kg)	Heat No.	T Position	Tensile Test			Division	Chemical Composition				
						YP (N/mm <sup>2</sup> )	TS (%)	EL (%)		C (%)	Si (%)	Mn (%)	P (%)	S (%)
1.20x918xC	CPE3741B	1	3,830	SU49362	B	231	344	40	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3741C	1	4,510	SU49362	B	231	344	40	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3741D	1	4,530	SU49362	B	231	344	40	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3741E	1	4,580	SU49362	B	231	344	40	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3742A	1	4,520	SU49362	B	227	339	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3742B	1	4,510	SU49362	B	227	339	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3742C	1	4,520	SU49362	B	227	339	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3742D	1	4,510	SU49362	B	227	339	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3742E	1	4,540	SU49362	B	227	339	41	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3743A	1	4,750	SU49362	B	236	340	43	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3743B	1	4,460	SU49362	B	236	340	43	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3743C	1	4,460	SU49362	B	236	340	43	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3743DA	1	4,190	SU49362	B	236	340	43	L	0.0341	0.002	0.205	0.0109	0.0044
1.20x918xC	CPE3743DB	1	4,200	SU49362	B	236	340	43	L	0.0341	0.002	0.205	0.0109	0.0044
*** Sub Total (020) ***		30	135,070 (kg)			< Not Welded >			L	0.0341	0.002	0.205	0.0109	0.0044
1.50x918xC	CPE2755A	1	4,100	SQ33037	B	211	327	44	L	0.0366	0.001	0.186	0.0076	0.0022
1.50x918xC	CPE2755B	1	4,130	SQ33037	B	211	327	44	L	0.0366	0.001	0.186	0.0076	0.0022
1.50x918xC	CPE2755C	1	4,110	SQ33037	B	211	327	44	L	0.0366	0.001	0.186	0.0076	0.0022
1.50x918xC	CPE2755D	1	4,110	SQ33037	B	211	327	44	L	0.0366	0.001	0.186	0.0076	0.0022
1.50x918xC	CPE2755E	1	4,260	SQ33037	B	211	327	44	L	0.0366	0.001	0.186	0.0076	0.0022
*** Sub Total (030) ***		5	20,710 (kg)			< Not Welded >			L	0.0366	0.001	0.186	0.0076	0.0022
0.75x1250xC	CPE0618A	1	10,040	SP65007	B	272	346	42	L	0.0405	0.003	0.195	0.0106	0.0029
0.75x1250xC	CPE0618B	1	10,350	SP65007	B	272	346	42	L	0.0405	0.003	0.195	0.0106	0.0029
0.75x1250xC	CPE0618C	1	10,410	SP65007	B	272	346	42	L	0.0405	0.003	0.195	0.0106	0.0029
*** Sub Total (040) ***		3	30,800 (kg)			< Not Welded >			L	0.0405	0.003	0.195	0.0106	0.0029

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

We hereby certify that the material herein has been made in accordance with the order and is fully in compliance.

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

Surveyor To :

*Ko Jae Gon*

POSCO

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

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Chief of material testing section

KO JAE GON



# Mill Test Certificate

Certificate No. : 200526-FC01KS-0030A1-0003  
Date of Issue : Jun., 02, 2020

Order No. : 01S4306236  
Supplier : POSCO INTERNATIONAL CORPORATION  
Customer : HTM YHTIOT OY  
PO No. : BHS-BK-HTM-2005  
Commodity : COLD ROLLED COIL  
Spec & Type : EN10130 DC01

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Division	Chemical Composition				
						YP (N/mm <sup>2</sup> )	TS	EL (%)		C (%)	SI (%)	Mn (%)	P (%)	S (%)
1.00x1000xC	CPE2130A	1	11,980	SU49362	B	248	344	43	L	0.0341	0.002	0.205	0.0109	0.0044
1.00x1000xC	CPE2130B	1	11,460	SU49362	B	248	344	43	L	0.0341	0.002	0.205	0.0109	0.0044
*** Sub Total (050) ***		2	23,440 (kg)			< Not Welded >								
1.00x1070x0	CPE1135A	1	11,760	SP64971	B	222	331	42	L	0.0348	0.001	0.205	0.0128	0.0028
1.00x1070x0	CPE1135B	1	11,860	SP64971	B	222	331	42	L	0.0348	0.001	0.205	0.0128	0.0028
1.00x1070x0	CPE1136A	1	11,740	SP64971	B	223	321	44	L	0.0348	0.001	0.205	0.0128	0.0028
1.00x1070x0	CPE1136B	1	11,910	SP64971	B	223	321	44	L	0.0348	0.001	0.205	0.0128	0.0028
*** Sub Total (060) ***		4	47,270 (kg)			< Not Welded >								
1.00x1250x0	CPE0606AA	1	8,550	SP65007	B	268	342	40	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0606B	1	10,310	SP65007	B	268	342	40	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0606C	1	10,240	SP65007	B	268	342	40	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0607A	1	10,320	SP65007	B	250	341	40	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0607B	1	10,280	SP65007	B	250	341	40	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0607C	1	10,300	SP65007	B	250	341	40	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0610A	1	10,310	SP65007	B	257	340	43	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0610B	1	10,280	SP65007	B	257	340	43	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0610C	1	10,410	SP65007	B	257	340	43	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0608A	1	10,320	SP65007	B	249	343	46	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0608B	1	10,290	SP65007	B	249	343	46	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0608C	1	10,260	SP65007	B	249	343	46	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0609A	1	10,290	SP65007	B	258	340	41	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0609B	1	10,290	SP65007	B	258	340	41	L	0.0405	0.003	0.195	0.0106	0.0029
1.00x1250x0	CPE0609C	1	10,200	SP65007	B	258	340	41	L	0.0405	0.003	0.195	0.0106	0.0029
*** Sub Total (070) ***		15	152,650 (kg)			< Not Welded >								
1.00x1500x0	CPE2862A	1	11,760	SB75328	B	242	344	41	L	0.0443	0.012	0.218	0.0085	0.0043

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

We hereby certify that the material herein has been made in accordance with the order and is fully in compliance.

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

Surveyor To :

*Ko Jae Gon*  
KO JAE GON





# Mill Test Certificate

Certificate No. : 200526-FC01KS-0030A1-0005  
Date of Issue : Jun., 02, 2020

Order No. : 01S4306236

PO No. : BHS-BK-HTM-2005

Supplier : POSCO INTERNATIONAL CORPORATION

Commodity : COLD ROLLED COIL

Customer : HTM YHTIOT OY

Spec & Type : EN10130 DC01

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Division	Chemical Composition				
						YP (N/mm <sup>2</sup> )	TS (%)	EL (%)		C (%)	SI (%)	Mn (%)	P (%)	S (%)
2.00x1250xC	CQE0253A	1	9,870	SQ32705	B	220	330	44	L	0.0357	0.001	0.193	0.0101	0.0040
2.00x1250xC	CQE0253B	1	9,850	SQ32705	B	220	330	44	L	0.0357	0.001	0.193	0.0101	0.0040
2.00x1250xC	CQE0253C	1	10,050	SQ32705	B	220	330	44	L	0.0357	0.001	0.193	0.0101	0.0040
2.00x1250xC	CQE0252A	1	9,720	SQ32705	B	218	328	44	L	0.0357	0.001	0.193	0.0101	0.0040
2.00x1250xC	CQE0252B	1	9,720	SQ32705	B	218	328	44	L	0.0357	0.001	0.193	0.0101	0.0040
2.00x1250xC	CQE0252C	1	9,870	SQ32705	B	218	328	44	L	0.0357	0.001	0.193	0.0101	0.0040
*** Sub Total (130) ***		6	59,080 (kg)			< Not Welded >			L	0.0357	0.001	0.193	0.0101	0.0040
2.00x1500xC	CQE0784A	1	11,020	SQ32917	B	212	319	46	L	0.0379	0.001	0.181	0.0089	0.0031
2.00x1500xC	CQE0784B	1	11,010	SQ32917	B	212	319	46	L	0.0379	0.001	0.181	0.0089	0.0031
2.00x1500xC	CQE0784C	1	11,410	SQ32917	B	212	319	46	L	0.0379	0.001	0.181	0.0089	0.0031
2.00x1500xC	CQE1338AB	1	9,500	SQ32917	B	203	316	41	L	0.0379	0.001	0.181	0.0089	0.0031
2.00x1500xC	CQE1338BD	1	9,860	SQ32917	B	203	316	41	L	0.0379	0.001	0.181	0.0089	0.0031
2.00x1500xC	CQE0785A	1	11,120	SQ32917	B	208	316	44	L	0.0379	0.001	0.181	0.0089	0.0031
2.00x1500xC	CQE0785B	1	11,100	SQ32917	B	208	316	44	L	0.0379	0.001	0.181	0.0089	0.0031
2.00x1500xC	CQE0785C	1	10,820	SQ32917	B	208	316	44	L	0.0379	0.001	0.181	0.0089	0.0031
*** Sub Total (140) ***		8	85,840 (kg)			< Not Welded >			L	0.0379	0.001	0.181	0.0089	0.0031
*** Grade Total ***		102	805,520 (kg)											
*** Grand Total ***		102	805,520 (kg)											

=== Last Item ===

We hereby certify that the material herein has been made in accordance with the order and is fully in compliance.

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

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

Surveyor To :

*Ko Jae Gon*