

PAGE		:		1 / 7		MILL TEST & INSPECTION CERTIFICATE																				DATE OF ISSUE		:		2025-12-31																																																																																																																																																																																																																																																																																																																																																																																																																																															
CERTIFICATE NO.		:		PE202601-0090-000090(5032406)		SeAH Steel HEAD OFFICE; SEAH TOWER, 45 YANGHWA-RO, MAPO-GU, SEOUL, KOREA POHANG PLANT ; 136, GOEDONG-RO, NAM-GU, POHANG, KOREA																				L/C No. (P/O No.)		:		PO25300089(91-1237)																																																																																																																																																																																																																																																																																																																																																																																																																																															
COMMODITY		:		SAWL STEEL PIPE																						CUSTOMER		:		SIXGEN TRADING COMPANY LLC																																																																																																																																																																																																																																																																																																																																																																																																																																															
SPECIFICATION		:		API 5L X70M PSL2(46th)																						SHIPPER		:		SEAH STEEL AMERICA,INC.																																																																																																																																																																																																																																																																																																																																																																																																																																															
NO.	HEAT NO. (BATCH NO.)	TYPE	ORDER SIZE										QUANTITY			REMARK																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		*1											PCS	TOTAL LENGTH												WEIGHT(FT/T)																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	V63442 (SPZY242090)	BBE	30 " X 0.500 " X 40.700 FT										1	40.700 FT		2.911	* CONFIRM TO NACE MR 0175 & MR 0103 (CHEMICAL COMPOSITION AND HARDNESS VALUE ONLY) * HARDNESS TEST RESULT ; Max. Value * TENSILE SPECIMEN : RECTANGULAR TYPE(1T180 & 1W-WIDTH 1½") * UT CALIBRATION REFERENCE : N5 NOTCH * RT IQI ; ISO WIRE-TYPE * IMPACT TEST SPECIMEN(3T90,3W,3HAZ/2V) : Full Size * MACROGRAPHIC TEST ; GOOD * JD FIELDS Steel Making :HYUNDAI STEEL (KOREA) Plate Rolling : HYUNDAI STEEL (KOREA)																																																																																																																																																																																																																																																																																																																																																																																																																																																												
2	V47500 (SPZY242100)	BBE	30 " X 0.500 " X 40.700 FT										1	40.700 FT		2.911																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3	V61037 (SPZY242110)	BBE	30 " X 0.500 " X 40.700 FT										1	40.700 FT		2.911																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NO.	HEAT NO (BATCH NO.)	HYDRO STATIC TEST	C O L D P S E	N D T U R	V D I S M E U E A N S I & O N	F L A T T E N I N G	R M T (Gs)	B E N D I N G	D R I F T	D E S I G	CHEMICAL COMPOSITION(%)														TENSILE TEST				IMPACT TEST(0 °C)								Drop Weight Tear Test			HARD NESS TEST	HEAT TREAT MENT																																																																																																																																																																																																																																																																																																																																																																																																																																				
		10 Sec.									R E S U L T	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Pcm	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	Y.R	E.L	L O C	ENERGY (Joule)									SHEAR AREA (%)																																																																																																																																																																																																																																																																																																																																																																																																																																			
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CERTIFICATE NO. : PE202601-0090-000090(5032406)

COMMODITY : SAWL STEEL PIPE

SPECIFICATION : API 5L X70M PSL2(46th)

MILL TEST & INSPECTION CERTIFICATE

SeAH Steel

HEAD OFFICE; SEAH TOWER, 45 YANGHWA-RO, MAPO-GU, SEOUL, KOREA

POHANG PLANT ; 136, GOEDONG-RO, NAM-GU, POHANG, KOREA

DATE OF ISSUE : 2025-12-31

L/C No. (P/O No.) : PO25300089(91-1237)

CUSTOMER : SIXGEN TRADING COMPANY LLC

SHIPPER : SEAH STEEL AMERICA,INC.

NO.	HEAT NO. (BATCH NO.)	TYPE	ORDER SIZE	QUANTITY			REMARK	
		*1		PCS	TOTAL LENGTH	WEIGHT(FT/T)		
20	V63437 (SPZZ031080)	BBE	48 " X 1.250 " X 40.500 FT		1	40.500 FT	11.476	* CONFIRM TO NACE MR 0175 & MR 0103 (CHEMICAL COMPOSITION AND HARDNESS VALUE ONLY) * HARDNESS TEST RESULT ; Max. Value * TENSILE SPECIMEN : RECTANGULAR TYPE(1T180 & 1W-WIDTH 1½") * UT CALIBRATION REFERENCE : N5 NOTCH * RT IQI ; ISO WIRE-TYPE * IMPACT TEST SPECIMEN(3T90,3W,3HAZ/2V) : Full Size * MACROGRAPHIC TEST ; GOOD * JD FIELDS Steel Making :HYUNDAI STEEL (KOREA) Plate Rolling : HYUNDAI STEEL (KOREA)
21	V63452 (SPZZ152080)	BBE	30 " X 0.500 " X 40.700 FT		1	40.700 FT	2.911	
22	V63449 (SPZZ152110)	BBE	30 " X 0.750 " X 42.000 FT		8	336.000 FT	35.740	
23	V63449 (SPZZ152120)	BBE	30 " X 0.750 " X 40.500 FT		1	40.500 FT	4.308	

NO.	HEAT NO (BATCH NO.)	HYDRO STATIC TEST	C O L D P S E	N D T U R	V D I S M E A N S I & O N	F L A T T E N I N G	R M T (Gs)	B E N D I N G	D R I F T	CHEMICAL COMPOSITION(%)																		TENSILE TEST				IMPACT TEST(0 °C)								Drop Weight Tear Test			HARD NESS TEST HV	HEAT TREAT MENT														
		10 Sec.								R E S U L T	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Pcm	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	Y.R %	E.L %	L O C	ENERGY (Joule)				SHEAR AREA (%)				()																		
		psi																														2		3		2	2	2	2	3	3	3			4	C1		1	2	3	AVE	1	2	3	AVE	1	2	AVE
																																*2	*3	*4	*5																							

SPEC							30			MAX MIN	12	45	170	25	15	50	50	50	50				10	25			110200 82700	92100 70300	93											250					
20	V63437 (SPZZ031080)	2970	G		G	G		G	G	H	8	24	155	11	2	1	1	7	9				3	18		T	97170 96880	77450	80	53	B	307	318	367	331	100	100	100	100					235	
										P	8	23	154	11	0	1	1	6	8	33	47	17	0	18		W					W	114	148	163	142								235		
										P	7	23	154	11	0	1	1	6	8	33	48	17	0	17						H	258	250	174	227								224			
21	V63452 (SPZZ152080)	2110	G		G	G		G	G	H	8	23	153	9	2	1	1	7	9				1	18		T	92240 85420	78030	85	35	B	450	452	447	450	100	100	100	100					219	
										P	10	23	154	9	1	1	1	7	7	36	47	16	1	20		W				W	204	188	191	194								225			
										P	9	23	155	9	1	1	1	7	8	36	47	16	1	19					H	374	369	445	396								220				
22	V63449 (SPZZ152110)	2970	G		G	G		G	G	H	8	23	153	9	2	1	1	8	9				2	18																					
23	V63449 (SPZZ152120)	2970	G		G	G		G	G	H	8	23	153	9	2	1	1	8	9				2	18		T	96740	80640	83	40	B	359	339	369	356	100	100	100	100					230	

NOTE

*1 ~ *12: Refer To Others

OTHERS

*1-BBE:BLACK BEVELED END(30°~ 35°) *G:GOOD *R,M:Residual Magnetism(Gauss) *DIR:Direction *LOC:Location
*2-U+R:Weld Seam Ultrasonic Test + Radiographic Test of Each Pipe End *3-G:Guided Bend Test *5-(Analysis)-H:Heat, P:P:Product
*6-0:Values below Significant Figure, 2:X1/100, 3:X1/1000, 4:X1/10000 *9-E,L:Elongation(GL-2")
*8-T:Base Transverse,W:Weld Transverse *10-B:Base,H:H.A,Z,W:Weld
*12-C1(X100):C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B

* THIS CERTIFICATE IS ISSUED
ACCORDING TO EN 10204 3.1 ; 2004
ISO 10474 3.1 ; 2013(3.1.B;1991)

We hereby certify that the material herein has been made and tested in accordance with above specification and the results of all test are acceptable.
In case of improper use other than the indicated on this certificate may cause safety hazard and/or monetary problems.
All copyrights belong to SeAH, and there will be legal liability or disadvantages if someone else forges this MTR.
This mill test report is not related the accreditation standard (KS Q ISO/IEC 17025, operation instructions and etc.)and KOLAS accreditation.

J. M. Kim

Manager of Q.M Dept.

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CERTIFICATE NO. : PE202601-0090-000090(5032406)

COMMODITY : SAWL STEEL PIPE

SPECIFICATION : API 5L X70M PSL2(46th)

MILL TEST & INSPECTION CERTIFICATE

SeAH Steel

HEAD OFFICE; SEAH TOWER, 45 YANGHWA-RO, MAPO-GU, SEOUL, KOREA

POHANG PLANT ; 136, GOEDONG-RO, NAM-GU, POHANG, KOREA

DATE OF ISSUE : 2025-12-31

L/C No. (P/O No.) : PO25300089(91-1237)

CUSTOMER : SIXGEN TRADING COMPANY LLC

SHIPPER : SEAH STEEL AMERICA,INC.

NO.	HEAT NO. (BATCH NO.)	TYPE	ORDER SIZE	QUANTITY			REMARK
		*1		PCS	TOTAL LENGTH	WEIGHT(FT/T)	
23	V63449 (SPZZ152120)	BBE	30 " X 0.750 " X 40.500 FT				* CONFIRM TO NACE MR 0175 & MR 0103 (CHEMICAL COMPOSITION AND HARDNESS VALUE ONLY) * HARDNESS TEST RESULT ; Max. Value * TENSILE SPECIMEN : RECTANGULAR TYPE(1T180 & 1W-WIDTH 1½") * UT CALIBRATION REFERENCE : N5 NOTCH * RT IQI ; ISO WIRE-TYPE * IMPACT TEST SPECIMEN(3T90,3W,3HAZ/2V) : Full Size * MACROGRAPHIC TEST ; GOOD * JD FIELDS Steel Making :HYUNDAI STEEL (KOREA) Plate Rolling : HYUNDAI STEEL (KOREA)

NO.	HEAT NO. (BATCH NO.)	HYDRO STATIC TEST	COL LAP SE	N · D · T	VD II SM UE AN LS I & ON	FL AT TE NN IN G	R · M · T (Gs)	B EN D I N G	D R I F T	CHEMICAL COMPOSITION(%)																		TENSILE TEST				IMPACT TEST(0 °C)								Drop Weight Tear Test ()	HARD NESS TEST HV	HEAT TREAT MENT																							
		10 Sec.								RES UL T	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Pcm	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	Y.R %	E.L %	LOC	ENERGY (Joule)				SHEAR AREA (%)																													
		psi																														2		3		2	2	2	2				3	3	3	4	C1	1	2	3	AVE	1	2	3	AVE	1	2	AVE							
																																*2	*3	*4	*5																								*6				*12	*7	*8
																																																											psi	psi	%	%			

SPEC							30			MAX MIN	12	45	170	25	15	50	50	50				10	25			110200 82700	92100 70300	93														250				
23	V63449 (SPZZ152120)	2970	G		G	G		G	G	P P -	8 B	24 L	156 A	10 N	1 K	1 -	1	8	9	33	49	18	0	18		W	97030				W H	174 134	168 213	154 254	165 200										239 235	

NOTE

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Refer To
Others

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