

PAGE		:		1 / 7		MILL TEST & INSPECTION CERTIFICATE																				DATE OF ISSUE		:		2025-11-30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CERTIFICATE NO.		:		PE202601-0041-000041(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 X52M PSL2(46th)																						SHIPPER		:		SEAH STEEL AMERICA,INC.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NO.		HEAT NO. (BATCH NO.)		TYPE		ORDER SIZE										QUANTITY			REMARK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				*1												PCS	TOTAL LENGTH		WEIGHT(FT/T)	* 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") * RT IQI ; ISO WIRE-TYPE * IMPACT TEST SPECIMEN(3T90,3W,3HAZ/2V) : 3/4 Sub or Full Size * MACROGRAPHIC TEST ; GOOD * JD FIELDS Steel Making :HYUNDAI STEEL (KOREA) Plate Rolling : HYUNDAI STEEL (KOREA)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1	V56859 (SPZY171060)	BBE	48 " X 0.375 " X 42.000 FT										7	294.000 FT		25.460																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
2	V56859 (SPZY171070)	BBE	48 " X 0.375 " X 40.500 FT										1	40.500 FT		3.507																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3	V56847 (SPZY171080)	BBE	48 " X 0.375 " X 40.500 FT										1	40.500 FT		3.507																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
4	V56847 (SPZY171090)	BBE	48 " X 0.375 " X 42.000 FT										2	84.000 FT		7.274																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NO.	HEAT NO (BATCH NO.)	HYDRO STATIC TEST	C O L L A P S E	N · D · T	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 I R I C T I O N	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	U+ R	*2	*3	*4	*5	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 (%)				()			HV	*11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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		psi														*6																					*12		*7	*8	psi	psi	*9	*10	1	2	3			AVE	1	2	3	AVE	1	2	AVE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SPEC							30		MAX MIN	22	45	140	25	15	50	30	30	15				10	25		110200 66700	76900 52200	93			30				40						250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
1	V56859 (SPZY171060)	730	G		G	G		G	G	H	7	24	134	10	1	2	2	3	0				3	15		T W	75850 76580	64970	86	41	B W H	406	405	405	405	100	100	100	100							173																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2	V56859 (SPZY171070)	730	G		G	G		G	G	H	7	24	134	10	1	2	2	3	0				3	15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

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CERTIFICATE NO. : PE202601-0041-000041(5032406)

COMMODITY : SAWL STEEL PIPE

SPECIFICATION : API 5L X52M 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 : 2025-11-30

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)		
5	V56859 (SPZY172010)	BBE	48 " X 0.375 " X 42.000 FT		1	42.000 FT	3.637	* 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) : 3/4 Sub or Full Size * MACROGRAPHIC TEST ; GOOD * JD FIELDS Steel Making :HYUNDAI STEEL (KOREA) Plate Rolling : HYUNDAI STEEL (KOREA)
6	V56847 (SPZY172020)	BBE	48 " X 0.375 " X 42.000 FT		5	210.000 FT	18.186	
7	V64749 (SPZY172030)	BBE	48 " X 0.375 " X 40.500 FT		1	40.500 FT	3.507	
8	V64749 (SPZY172070)	BBE	48 " X 1.000 " X 42.000 FT		2	84.000 FT	19.144	

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 I R E C T I O N	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 psi	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 (%)																	
																																2		3		2	2	2	2				3	3	3	4	C1						
																																*6										*12	*7	*8	psi	psi	%	%	*9	*10	1	2	3

SPEC							30			MAX MIN	22	45	140	25	15	50	30	30	15					10	25			110200 66700	76900 52200	93															250		
5	V56859 (SPZY172010)	730	G		G	G		G	G	H	7	24	134	10	1	2	2	3	0					3	15																						
6	V56847 (SPZY172020)	730	G		G	G		G	G	H	7	23	135	12	2	1	2	3	0					4	15																						
7	V64749 (SPZY172030)	730	G		G	G		G	G	H	8	24	134	12	2	1	2	2	0					4	16																						
										P	8	24	135	12	1	1	2	2	0	51	34	9	2	16			T	70630	57870	82	46	B	393	392	393	393	100	100	100	100							156
										P	8	25	135	12	1	1	2	2	0	51	34	9	2	16			W	71930				W	260	298	225	261										220	
										P																							H	407	421	418	415										210
8	V64749 (SPZY172070)	1960	G		G	G		G	G	H	8	24	134	12	2	1	2	2	0					4	16																						

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: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.

SeAH