

증명서번호
CERTIFICATE NO.: CE202207-0222-001097(5022865) 계약서번호
L/C No. (P/O No.): 222-L199(P037684)

제품명
COMMODITY : WELDED AUSTENITIC STAINLESS STEEL PIPES 수요자
CUSTOMER : ALLIED STAINLESS

제품규격
SPECIFICATION : ASTM A312 -19/ASME SA312 -2021 Ed. 주문자
SHIPPER : SEAH STEEL AMERICA, INC.

INSPECTION CERTIFICATE

SeAH SeAH Steel Corp.

(주)세아제강

HEAD OFFICE: SEAH TOWER, 45 YANGHWA-RO, MAPO-GU, SEOUL, SOUTH KOREA
 MANUFACTURED IN CHANGWON PLANT: 280, GONGDAN-RO, SEONGSAN-GU, CHANGWON-SI, GYEONGSANGNAM-DO, SOUTH KOREA

ITEM NO.	HEAT NO. (BATCH NO.)	등급 GRADE	주문치수 ORDER SIZE	수량 QUANTITY			비고 REMARKS
				분수 PCS.	총길이 TOTAL LENGTH	증량(M/T) WEIGHT	
1	SE33247 (SB22660070)	TP304/304L	1/2 " X SCH40S X 20.000 FT [4IWSS.5]	336	6,720.000 FT	2.620	ANSI B 36.10, B36.19 MERCURY FREE / NO WELD REPAIR 100% PMI TEST : ACCEPTABLE CORROSION TEST TO ASTM A262 PRACTICE 'E' NACE MR0175 / ISO 15156-3 / NACE MR0103 / SOUR SERVICE ELONGATION IN 2" / NSF 61 CERTIFIED EDDY CURRENT TEST ACCORDING TO ASTM PRACTICE E 426 *PR : PREN = %Cr + 3.3%(Mo + 0.5%W) + 16%M
2	SE33246 (SB22660080)	TP304/304L	1/2 " X SCH40S X 20.000 FT [4IWSS.5]	348	6,960.000 FT	2.714	
3	SE33246 (SB22660090)	TP304/304L	1/2 " X SCH40S X 20.000 FT [4IWSS.5]	350	7,000.000 FT	2.730	
4	SE33247 (SB22660100)	TP304/304L	1/2 " X SCH40S X 20.000 FT [4IWSS.5]	332	6,640.000 FT	2.590	

ITEM NO.	HEAT NO. (BATCH NO.)	HYDROSTATIC		PNEUMATIC		N.D.I.S.M.E.A.L.S.I.&O.N	V.I.S.U.A.L.I.N.G	F.L.A.T.T.E.N.I.N.G	F.L.A.R.I.N.G	F.L.A.N.G.E	R.e.v.B.E.N.D	R.F.L.A.T.T.E.N.I.N.G	B.E.N.D	C.O.R.R.O.S.I.O.N	CHEMICAL COMPOSITION										TENSILE TEST			IMPACT		HARDNESS TEST HRB					
		Sec	R.E.S.U.L.T	Sec	R.E.S.U.L.T										E	*1	D.E.S.I.G	C	Si	Mn	P	S	Ni	Cr	Mo	N	Pb	PR	D.I.R		TENSILE STRENGTH	YIELD STRENGTH	E.L	ENERGY Joule	LATERAL EXPANSION mm
																		3	2	3	2		3	4	psi	psi	%								
																		*2	*3												*4				
기준 SPEC															MAX	35	100	200	45	30	1100	2000									99				
															MIN						800	1800													

1	SE33247 (SB22660070)					G	G	G					G	H	22	39	142	29	4	803	1812	10	33	<100	19.0	L	96300	45650	54			86
2	SE33246 (SB22660080)					G	G	G					G	H	26	39	142	27	4	804	1806	10	33	<100	18.9	L	97030	45810	54			87
3	SE33246 (SB22660090)					G	G	G					G	H	26	39	142	27	4	804	1806	10	33	<100	18.9	L	94270	44230	53			87
4	SE33247 (SB22660100)					G	G	G					G	H	22	39	142	29	4	803	1812	10	33	<100	19.0	L	95870	44960	54			86
																										L	94420	44870	55			87
																										L	95300	45280	54			87
																										L	96450	45720	54			87
																										L	96840	45650	54			87

*1 U : 초음파검사(Ultrasonic Test.)
*2 H : 열연분석(Heat(Ladle) Analysis)
*3 E : 와류탐상검사(Eddy Current Test.)
*4 P : 제품분석(Product Analysis)
 R : 방사선검사(Radiographic Test.)

2 : x 100 L : 암연방향(Base Metal Longitudinal.)
 3 : x 1000 T : 원주방향(Base Metal Transverse.)
 4 : x 10000 W : 용접부(Weld Part.)
 G : Good

THE MATERIAL HAS BEEN SOLUTION HEAT TREATMENT AT MIN 1040°C
 MIN 30 SECONDS AND RAPID WATER QUENCHED.
 PED 2014/68/EU, CERT NO:2514-2013-CE-KOR DNV, VALID UNTIL: 2024-12-13
 EN 10204 TYPE 3.1

Surveyor : Manager of Q.M Dept.

• 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.
 • THE USE OF THE MATERIAL OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY AND/OR MONETARY PROBLEMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

D.W.Kam