

증명서번호
CERTIFICATE NO.: CE201812-0036-001975(5018853)

제품명
COMMODITY : WELDED AUSTENITIC STAINLESS STEEL PIPES

제품규격
SPECIFICATION : ASTM A312-04b/ASME SA312-01 + A02

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

발급일자
DATE OF ISSUE : 2018. 11. 30

계약서번호
L/C No. (P/O No.) : 183-L647 (660415-00)

수요자
CUSTOMER : SOUTHWEST STAINLESS STEEL INC

주물자
SHIPPER : SEAH STEEL AMERICA, INC.

11/05/2019

3258309



SSPIE 1/2IN SCH 40 304/L PLAIN
END IMPORT

ITEM NO.	HEAT NO. (BATCH NO.)	등급 GRADE	주문치수 ORDER SIZE			수량 QUANTITY			비 REMARKS
						본수 PCS.	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	
13	SD31664 (SB18Y50010)	TP304/304L	3/4 "	X SCH10S	X 20.000 FT	375	7,500.000 FT	2.925	MERCURY FREE NO WELD REPAIR PICKLED & PASSIVATED NACE MR0175 / NACE MR0103 ELONGATION IN 2" EDDY CURRENT TEST ACCORDING TO ASTM PRACTICE E 426 COUNTRY OF MELT : KOREA PED 97/23/EC
14	SD31664 (SB18Y50020)	TP304/304L	3/4 "	X SCH10S	X 20.000 FT	105	2,100.000 FT	0.819	
15	SE08572 (SB18Y60020)	TP304/304L	1/2 "	X SCH40S	X 20.000 FT	200	4,000.000 FT	1.560	
16	SD36132 (SB18Y80060)	TP304/304L	3 "	X SCH40S	X 20.000 FT	17	340.000 FT	1.183	

ITEM NO.	HEAT NO. (BATCH NO.)	HYDROSTATIC		PNEUMATIC		N.D. T	V.D.I. S.M.E. L.S.I. & O.N	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.T. I.N.G	B.E.N.D	C.O.R. R.O.S.I. O.N	CHEMICAL COMPOSITION										TENSILE TEST			IMPACT		HARD T				
		Sec	R.E.S. U.L.T	Sec	R.E.S. U.L.T										D.E.S. I.G	C	Si	Mn	P	S	Ni	Cr	Mo	N	D.I.R	TENSILE STRENGTH	YIELD STRENGTH	E.L	ENERGY		LATERAL EXPAN- SION			
																																*1	*2	*3
기준 SPEC															MAX MIN	35 800	100 1800	200	45	30	1300	2000												
13	SD31664 (SB18Y50010)					G	G	G							H P	18	43	144	32	2	803	1822			L	95580	49020	59						
14	SD31664 (SB18Y50020)					G	G	G							H P	18	43	144	32	2	803	1822			L	96590	46120	58						
15	SE08572 (SB18Y60020)					G	G	G							H P	25	39	143	31	4	805	1812			L	95580	50180	51						
16	SD36132 (SB18Y80060)					G	G	G							H P	16	41	144	32	3	805	1818			L	96590	44520	63						
															H P										L	97750	45250	59						
															H P										L	93690	48290	67						

NOTE

U : 초음파검사(Ultrasonic Test.)
E : 와류탐상검사(Eddy Current Test.)
P : 침투탐상시험(Penetrant Test.)
R : 방사선검사(Radiographic Test.)

H : 열원분석(Heat(Ladle) Analysis)
P : 제품분석(Product Analysis)

2 : x 100
3 : x 1000
4 : x 10000
G : Good

L : 양면방향(Base Metal Longitudinal.)
T : 원주방향(Base Metal Transverse.)
W : 용접부(Weld Part.)

THE MATERIAL HAS BEEN SOLUTION HEAT TREATMENT AT MIN 1040°C
(HEAT TREATMENT HOLDING TIME : MIN 30 SEC)
AND RAPID WATER QUENCHED.
EN 10204 TYPE 3.1

Surveyor :

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)

Manager of Q.M Dept.
S. K. SEO