

증명서번호
 CERTIFICATE NO : PE201810-0068-001631(5018628)
 제품명
 COMMODITY : E.R.W STEEL PIPE
 제품규격
 SPECIFICATION : ASTM A53 B(2012)

QUALITY CERTIFICATE

SeAH SeAH Steel Corp.

(주)세아제강

HEAD OFFICE: SEAH TOWER, 45 YANGHWA-RO, MAPO-GU, SEOUL, KOREA
 POHANG PLANT: 136, GORDONG-RO, NAM-GU, POHANG, KOREA

발급일자
 DATE OF ISSUE : 2018.08.31 ORIGINAL
 계약서번호
 L/C No. (P/O No.) : SPS-20180525SA
 수요가
 CUSTOMER : TUBOS MONTERREY PTE 122 603, INDUSTRIAL VALLEJO, 02300 CDMX
 주문자
 SHIPPER : 현대중합상사(주)

NO	HEAT NO. (BATCH NO.)	판단 TYPE	주문치수 ORDER SIZE			수량 QUANTITY			비고 REMARK
						본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	
5	P79507 (SHS8211010)	BBE	10 "	X 0.594 "	X 6.200 M	80	496.000 M	47.601	UNIT WEIGHT(KG/M) 4" X 0.337" X 6.200M - 22.320 KG/M 5" X 0.375" X 6.200M - 30.940 KG/M 6" X 0.432" X 6.200M - 42.560 KG/M 8" X 0.500" X 6.200M - 64.640 KG/M 10" X 0.594" X 6.200M - 95.970 KG/M SeAH Steel Contact Info: Eugene Park, eugene.park@seah.co.kr, +82-2-6970-1086
6	SQ49456 (SHS9101060)	BBE	8 "	X 0.500 "	X 6.200 M	36	223.200 M	14.428	
7	SQ74228 (SHS9101070)	BBE	8 "	X 0.500 "	X 6.200 M	62	384.400 M	24.848	
8	SQ74228 (SHS9101080)	BBE	8 "	X 0.500 "	X 6.200 M	4	24.800 M	1.603	

NO.	HEAT NO. (BATCH NO.)	HYDROSTATIC TEST 5 Sec. psi	N D T U	V I S U A L & D I M E N S I O N	F L A T T E N I N G	S H O C K	C O M P R E S S I O N	M A G N E T I C G A U S S	B E N D I N G	D R I F T	C R U S H	P L A N R I N G	F L A N G E	R E V E R S E	F L A T T E N I N G	ZINC COATING TEST		CHEMICAL COMPOSITION(%)											TENSILE TEST (Gage Length : 50mm)			IMPACT TEST ()		HARD- NESS TEST	HEAT TREATMENT			
																WEIGHT OF ZINC COATING	합금리	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	E.L	ENE-RGY			SHEAR AREA	SN	
																4	5	2	3	2	2	2	2	3	8	9	psi	psi	%	Joule	%	11						
기준 SPEC																	MAX MIN	30	120	50	45	40	40	40	15	80			60000	35000	30							
5	P79507 (SHS8211010)	2320	G	G	G	G											H	6	1	75	10	7													G			
																	P	5	1	75	10	6	1	TR	2	TR	4											
																	P	5	1	76	10	7	1	TR	1	TR	3											
6	SQ49456 (SHS9101060)	2430	G	G	G	G											H	17	1	78	9	3															G	
																	P	17	1	77	10	3	2	1	2	TR	2											
																	P	18	2	77	9	2	2	1	1	TR	3											
7	SQ74228 (SHS9101070)	2430	G	G	G	G											H	18	1	75	8	4															G	
																	P	17	1	75	10	4	1	TR	1	TR	1											
																	P	17	TR	74	9	5	1	TR	1	TR	3											
8	SQ74228 (SHS9101080)	2430	G	G	G	G											H	18	1	75	8	4															G	
																	P	17	1	75	10	4	1	TR	1	TR	1											
																	P	17	TR	74	9	5	1	TR	1	TR	3											

*1-BBE:BLACK BEVELED END(30° ~ 35°) *G:GOOD *Tr:Trace * THIS CERTIFICATE IS ISSUED
 *2-U:U:Weld Seam Ultrasonic Test ACCORDING TO EN 10204 3.1 ; 2004
 *6-H:Heat Analysis, P:Product Analysis, W:Weld Analysis *7-2:X100, 3:X1000, 4:X10000 ISO 10474 3.1 ; 2013(3.1.B;1991)
 *9-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing(Weld and H.A.Z)

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.
C. S. Park