

P/O No. : 20382  
L/C No. : 5602600358

ISSUED DATE : 2015.03.20

COMMODITY : E.R.W STEEL PIPE

SPECIFICATION : API 5L X-42 PSL1/ASTM A53B

# CERTIFICATE OF QUALITY



주식회사 휴스틸  
HUSTEEL Co., Ltd.  
HEAD OFFICE SHINAN B/D 15F, 943-19, DABCHI-DONG,  
KANGNAM-GU, SEOUL, KOREA  
DANGJIN PLANT 131, BUGOKGONGDAN STREET, SONGAK-EUP,  
DANGJIN-SI, CHUNGCHONGNAM-DO, KOREA

CERTIFICATE No. : 150320-A165

MANUFACTURED No. : 15-03-027-0

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CLAS, SA DE CV



NO.	HEAT_NO	QUANTITY	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT	TENSILE TEST					CHEMICAL COMPOSITION(%)																							
					O.D	WT	LENGTH		DIR	TS	YS	EL	YR	WTS	DIV	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	CEQ	PCM							
					inch	inch	ft																								lb/ft	PSI	PSI	%	%	PSI	-2
01	N41262	427	BPEB	10	10.750	0.225	20	25.29	T	66,279	52,646	39	79	70,485	H	6	1	77	12	5	12	10	10	0	0	140	10										
02	N36853	25	BPEB	10	10.750	0.250	20	28.06	T	77,157	68,745	36	89	81,363	P	6	2	80	12	5	12	11	10	13	10	135	9										
	N38113	109	BPEB	10	10.750	0.250	20	28.06	T	66,424	51,631	38	78	70,630	H	6	18	99	12	1	16	30	30	100	0	290	20										
														P	6	20	110	12	1	16	28	30	100	13	290	16											
														P	6	20	110	10	1	16	28	30	101	13	288	20											
														H	7	1	76	15	7	15	10	20	0	0	150	10											
														P	7	2	75	15	7	15	11	20	13	17	150	9											
														P	7	2	75	15	7	15	11	20	14	15	144	9											

NO.	HYDROSTATIC TEST			HEAT TREATMENT	ZINC COATING TEST		THREADS		HARDNESS TEST	IMPACT TEST		*13 N · D · T (UT Or ECT)	FLATTENING OR BEND TEST	VISUAL & DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM	
	TP	H.T	RESULT		WZC	CST	TPI	ETL		( 0 ) °C	Energy (Ind, J)						SIZE
	PSI	sec			g/m <sup>2</sup>	TIMES	mm	HV									
01	1057	5	GOOD	900								GOOD	GOOD	GOOD	GOOD		
02	1660	5	GOOD	900								FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST			
	1660	5	GOOD	900													

HARDNESS MAX 22 HRC AS PER NACE MR 0175  
Latest edition per API 5L(45TH,2013) ASTM(2012)

NOTE	*1. Type of Pipe Ends	*2. O.D : Outside Diameter, WT : Wall Thickness	*3. Direction: L : Longitudinal, T : Transverse
	BPE Black Plain Ends	GPE Galvanized Plain Ends	*4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, WTS : Weld tensile strength, Gauge Length : 2 inch, LP method : 0.5% Underload
	BPEB BPE Bevelled	GPEB GPE Bevelled	*5. H : Heat analysis, P : Product analysis *6. -2 : x1/160, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone
	BTE Black Threaded Ends	GTE Galvanized Threaded Ends	*8. Specimen Size -A:10x10mm, B :10x7.5mm, C:10x5.6mm, D:10x5.0mm, Direction Transverse *9. TP : Testing Pressure, H.T : Holding Time *10. Heat Treatment Seam Normalizing
BTC Black Threaded & Coupled	GTC Galvanized Threaded & Coupled	*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test *12. TPI : Threads per inch, ETL : Effective length of threads *13. NDT : UT Or ECT	

SURVEYOR: HMC C-30-05-(21)

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION  
THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B)

본 검사증명서에 영기된 규격용도 외 사용시 안전상 문제가 발생할 수 있으며, 검사증명서 위·변조시 사문서 위조(형법231조)로 불이익을 당하실 수 있습니다.

Manager of QA Team: Sang Jun Park

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