

P/O No. : 21248
 L/C No. : M932868
 ISSUED DATE : 2015.07.31
 COMMODITY : E.R.W. STEEL PIPE
 SPECIFICATION : API 5L X-42 PSL1/ASTM A53B

QUALITY CERTIFICATE



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

CERTIFICATE No. : 150731-A399
 MANUFACTURED No. : 15-07-007-0
 SUPPLIER : HUSTEEL CO., LTD.
 PLESA
 CUSTOMER : ANAHUAC Y CIAS., S.A. DE C.V.



Original certificate can be verified through QReal Application.

NO.	HEAT_NO	QUAN-TITY	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT	TENSILE TEST						CHEMICAL COMPOSITION(%)															
					O.D	W.T	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			PSI	%	%	PSI	-2			-3			-4			-5	-3						
					*2		*4			PSI	*6																			
01	N52947	219	BPEB	10	10.750	0.225	20	25.79	T	68,455	58,593	35	86	72,661	H	6	1	79	11	6	17	10	20	0	0	150	10			
02	309327	365	BPEB	10	10.750	0.250	20	28.06	T	72,371	54,242	41	75	75,996	P	6	3	75	11	5	17	11	20	10	14	150	9			
03	202472	257	BPEB	10	10.750	0.365	20	40.52	T	71,501	52,936	38	74	75,706	P	6	3	77	11	5	17	12	20	10	10	146	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		
	T.P	H.T	RESULT		WZC	CST	TPI	ETL		(0) °C									
	PSI	sec			g/m ²	TIMES	mm	HV		Energy (Ind, J)	SIZE	FLANGE TEST						REVERSE FLATTENING TEST	CRUSH TEST
	*9				*10	*11	*12			*7	*8								
01	1057	5	GOOD	900															
02	1660	5	GOOD	900															
03	2420	5	GOOD	900															

ORIGINAL

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

N O T E

*1. Type of Pipe Ends	*2. O.D : Outside Diameter, W.T : 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, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload	*5. H : Heat analysis, P : Product analysis
BPEB BPE Bevelled GPEB GPE Bevelled	*6. -2 : x1/100, -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:10x6.6mm, D:10x5.0mm, Direction: Transverse	*9. T.P : Testing Pressure, H.T : Holding Time
BTC Black Threaded & Coupled GTC Galvanized Threaded & Coupled	*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test	*10. Heat Treatment Seam Normalizing
	*12. TPI : Threads per inch, ETL : Effective length of threads	*13. NDT : UT Or ECT.

SURVEYOR _____

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)

MANAGER OF Q.A TEAM

