QUALITY CERTIFICATE

주식회사 휴스틸
HUSTEEL Co., Ltd.

HEAD OFFICE SHINAN B/D 15F, 943-19, DAECHI-DONG, KANGNAM-GU, SEOUL, KOREA
DAEBUL PLANT 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP, YEONGAM-GUN, JEOLLANAM-DO, KOREA

P/O No. : 21589
L/C No. : M935832
ISSUED DATE : 2015.03.11
COMMODITY : E.R.W. STEEL PIPE
SPECIFICATION : API 5L X42 PSL-1/ASTM A53B

CERTIFICATE No. : 150719
MANUFACTURED No. : 14-07-194
SUPPLIER : HUSTEEL CO., LTD.
CUSTOMER : PLESA ANAHUAC Y CLAS., S.A. DE C.V

Original certificate can be verified through QReal Application

NO.	HEAT_NO	QUANTITY PCS	TYPE *1	NOMINAL SIZE	ORDER SIZE O.D inch	W.T inch	LENGTH ft *2	WEIGHT lb/ft	DIR. *3	TENSILE TEST TS PSI	YS PSI *4	EL %	YR %	WTS PSI
01	N56170	85	BPEB	18	18.000	0.375	20	70.65	T	66,432	56,340	38	80	70,487
02	N44827	76	BPEB	18	18.000	0.375	20	70.65	T	70,340	57,473	38	82	75,996
03	N44261	75	BPEB	18	18.000	0.375	20	70.65	T	69,787	56,997	41	82	72,813

CHEMICAL COMPOSITION(%) *6

NO.	DIV *5	C -2	Si	Mn	P -3	S	Cu	Ni	Cr	Mo -4	V	Nb	Ti	B -5	CEQ -3	PCM
01	H	6	1	74	12	5	13	10	20	TR	TR	230	10			
	P	7	2	75	13	6	16	6	14	36	9	286	5			
	P	7	2	75	13	6	15	6	19	32	9	280	4			
02	H	6	1	73	11	4	24	10	20	TR	TR	240	10			
	P	6	2	74	12	4	25	11	15	22	5	286	8			
	P	7	2	75	12	4	25	10	14	21	5	254	7			
03	H	6	1	73	13	6	15	11	20	TR	TR	210	10			
	P	7	2	75	11	4	13	7	22	33	9	286	5			
	P	7	2	75	12	5	13	6	14	28	7	245	4			

NO.	HYDROSTATIC TEST T.P PSI	H.T sec *9	RESULT	HEAT TREATMENT ℃ *10	ZINC COATING TEST WZC g/m² *11	CST TIMES	THREADS TPI *12	ETL inch	HARDNESS TEST HV	IMPACT TEST (0)℃ DIV *7	Energy (Ind.J)	SIZE *8
01	1500	5	GOOD	950								
02	1500	5	GOOD	950								
03	1500	5	GOOD	950								

*13 N·D·T (UT)	FLATTENING OR BEND TEST	VISUAL& DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM
GOOD	GOOD	GOOD	GOOD	GOOD
FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST		

ORIGINAL

NOTE

*1.Type of Pipe Ends

BPE	Black Plain Ends	GPE	Galvanized Plain Ends
BPEB	BPE Bevelled	GPEB	GPE Bevelled
BTE	Black Threaded Ends	GTE	Galvanized Threaded Ends
BTC	BlackThreaded & Coupled	GTC	Galvanized Threaded & Coupled

*2. O.D : Outside Diameter, W.T : Wall Thickness *3. Direction- L : Longitudinal, T : Transverse
*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 *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
*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 *10. Heat Treatment Seam Normalizing
*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test *12. TPI : Threads per inch, ETL : Effective length of threads *13. NDT : UT, Reference Standard 3.2 ℄ Drilled Hole

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

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

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04	N44287	73	BPEB	18	18.000	0.375	20	70.65	T	69,872	56,349	38	80	72,481
05	N44276	66	BPEB	18	18.000	0.375	20	70.65	T	70,740	57,491	38	82	75,936

CHEMICAL COMPOSITION(%)

NO.	DIV *5	C -2	Si -2	Mn -2	P -3	S -3	Cu -3	Ni -3	Cr -3	Mo -4	V -4	Nb -4	Ti -4	B -5	CEQ -3	PCM -3
04	H	6	2	73	12	5	13	10	20	TR	TR	230	10			
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