





P/O No. : 20392  
L/C No. : 5602600358

ISSUED DATE : 2015.04.13

COMMODITY : E.R.W. STEEL PIPE

API 5L X-42 PSL1/

SPECIFICATION : ASTM A53B

# CERTIFICATE OF QUALITY



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

CERTIFICATE No. : 150413-101

MANUFACTURED No. : 15-03-212

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS. SA DE CV



Original certificate can be verified through QR code Application.

NO.	HEAT_NO	QUAN-TITY	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT	TENSILE TEST					CHEMICAL COMPOSITION(%)																			
					O.D Inch	WT Inch	LENGTH ft		DIR.	TS PSI	YS %	EL %	YR %	WTS PSI	DIV	CHEMICAL COMPOSITION(%)																	
																C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	CEQ	PCM			
07	305535	83	BPEB	12 3/4	12.750	0.250	20	33.41	T	71,501	52,936	38	74	76,722	H	15	1	81	16	4	10	10	50	20	20	10							
08	N39566	53	BPEB	12 3/4	12.750	0.312	20	41.48	T	68,600	58,883	37	86	72,661	P	14	2	83	14	2	4	1	17	10	5	28	7						
09	N38113	32	BPEB	12 3/4	12.750	0.312	20	41.48	T	68,165	54,967	40	81	71,065	H	7	2	76	11	6	18	10	20	TR	10	130	10						

NO.	HYDROSTATIC TEST			HEAT TREATMENT	ZINC COATING TEST		THREADS		HARDNESS TEST		IMPACT TEST		*13 N · D · T ( UT )	FLATTENING OR BEND TEST	VISUAL & DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM				
	TP	H.T	RESULT		WZC	CST	TPI	ETL	HV	DIV	Energy (J)	SIZE						GOOD	GOOD	GOOD	GOOD
07	1410	5	GOOD	930																	
08	1760	5	GOOD	930																	
09	1760	5	GOOD	930																	

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

\*1. Type of Pipe Ends  

BPE	Black Flange Ends	GPE	Galvanized Flange Ends
BPEB	BPE Beveled	GPEB	GPE Beveled
BTE	Black Threaded Ends	GTE	Galvanized Threaded Ends
BTC	Black Threaded & Coupled	GTC	Galvanized Threaded & Coupled

\*2. O.D : Outside Diameter, WT : 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, %P method : 0.5% Underload  
\*5. R : Heat analysis, P : Product analysis \*6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : T/Yace \*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. TP : Testing Pressure, HT : Holding Time \*10. Heat Treatment Seam Normalizing Reference Standard 3.2.2 Drilled Hole  
\*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test \*12. TPI : Threads per inch, ETL : Effective length of threads \*13. NDT : UT

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)

MANAGER OF QA TEAM

본 검사공정서에 정기적 규격용도 외 사용시 안전상 문제가 발생할 수 있으며, 검사공정서 위·변조시 사법처리 위조(형법231조)로 불이익을 당하실 수 있습니다.



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

# CERTIFICATE OF QUALITY



주식회사 휴스틸  
HUSTEEL Co., Ltd.  
HEAD OFFICE SHINAN B/D 15R, 943-19, DAECHI-DONG,  
KANGNAM-GU, SEOUL, KOREA  
DAEBUL PLANT 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,  
YEONGAM-GUN, JEOLLANAM-DO, KOREA

CERTIFICATE No. : 150413-101

MANUFACTURED No. : 15-03-212

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS. SA DE CV



Original certificate can be verified through QR code Application.

ISSUED DATE : 2015.04.13

COMMODITY : B.R.W. STEEL PIPE

API 5L X-42 PSL1/

SPECIFICATION : ASTM A53B

NO.	HEAT_NO	QUANTITY	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT	TENSILE TEST					CHEMICAL COMPOSITION(%)																					
					OD	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																								PSI	%	%	PSI	-2
13	N39566	73	BPEB	14	14.000	0.312	20	45.65	T	68,600	58,883	37	86	72,661	H	7	2	76	11	6	18	10	20	TR	10	130	10								
14	N40814	74	BPEB	16	16.000	0.225	20	37.94	T	67,875	53,517	43	79	67,585	P	7	2	76	11	6	17	7	21	10	7	151	5								
15	M47441	120	BPEB	16	16.000	0.281	20	47.22	T	78,172	63,524	36	81	81,943	H	6	1	76	10	5	16	10	20	TR	10	140	10								

NO.	HYDROSTATIC TEST			HEAT TREATMENT	ZINC COATING TEST		THREADS		HARDNESS TEST	IMPACT TEST		*13 N · D · T (UT)	FLATTENING OR BEND TEST	VISUAL & DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM
	TP	H.T	RESULT	°C	WZC	CST	TPI	ETL	HV	DIV	Energy (Ind. J)	SIZE	GOOD	GOOD	GOOD	GOOD
	PSI	sec			g/m <sup>2</sup>	TIMES	inch	inch					FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST	GOOD
13	1600	5	GOOD	930												
14	1010	5	GOOD	930												
15	1260	5	GOOD	930												

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

- \*1. Type of Pipe Ends
- |      |                          |      |                               |
|------|--------------------------|------|-------------------------------|
| BPE  | Black Plain Ends         | GPE  | Galvanized Plain Ends         |
| BPEB | BPE Beveled              | GPEB | GPE Beveled                   |
| BTE  | Black Threaded Ends      | GTE  | Galvanized Threaded Ends      |
| BTC  | Black Threaded & Coupled | GTC  | Galvanized Threaded & Coupled |
- \*2. O.D. : Outside Diameter, WT : 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, YP 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: 20x7.5mm, C: 10x5.5mm, D: 10x5.0mm, Direction: Transverse  
\*9. TP : Testing Pressure, H.T : Holding Time  
\*10. Heat Treatment Seam Normalizing Reference Standard 3.2 C Drilled Hole  
\*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test  
\*12. TPI : Threads per inch, ETL : Effective Length of threads  
\*13. NDT : UT

SURVEYOR  
HMC C-30-05-(21)

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2/1/15  
MANAGER OF Q.A TEAM

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HUSTEEL

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COPY

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

ISSUED DATE : 2015.04.13

COMMODITY : E.R.W. STEEL PIPE  
API 5L X-42 PSL1/

SPECIFICATION : ASTM A53B

# CERTIFICATE OF QUALITY



주식회사 휴스틸  
HUSTEEL Co., Ltd.  
HEAD OFFICE SHINAN B/D 15F, 943-19, DAECHI-DONG,  
KANGNAM-GU, SEOUL, KOREA  
DABBUL PLANT 3RD, DABBUL INDUSTRIAL COMPLEX, SAMHO-EUP,  
YRONGAM-GUN, JEOLLANAM-DO, KOREA

CERTIFICATE No. : 150413-101

MANUFACTURED No. : 15-03-212

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS, SA DE CV



Original certificate can be verified through QR code Application.

NO.	FRAC. NO.	QUANTITY	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT lb/ft	DIR.	TENSILE TEST					DIV.	CHEMICAL COMPOSITION(%)																		
					OD	WT	LENGTH			TS	YS	EL	YR	WTS		C	SI	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	CBQ	PCM				
					inch	inch	ft																								PSI	%	%	PSI
16	N40915	80	BPEB	16	16.000	0.312	20	52.32	T	67,730	55,112	42	81	74,836	H	6	2	75	10	5	12	10	20	TR	TR	130	10							
17	N3S295	2	BPEB	16	16.000	0.312	20	52.32	T	68,165	54,242	41	80	69,180	P	6	2	77	10	5	12	5	20	10	9	161	8							
18	N27689	1	BPEB	16	16.000	0.312	20	52.32	T	68,455	59,173	38	86	78,462	H	6	2	77	9	5	14	5	21	10	11	195	8							

NO.	HYDROSTATIC TEST			HEAT TREATMENT	ZINC COATING TEST		THREADS		HARDNESS TEST	IMPACT TEST	*13 N-D-T (UT)	FLATTENING OR BEND TEST	VISUAL DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM						
	TP	H.T	RESULT		WZC	CST	TPI	ETL								Energy (J)	FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST	GOOD	GOOD
	PSI	sec			g/m <sup>2</sup>	TIMES	inch	SIZE													
16	1400	5	GOOD	930					HV	DIV *7											
17	1400	5	GOOD	930																	
18	1400	5	GOOD	930																	

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

NOTE	*1. Type of Pipe Ends		*2. O.D : Outside Diameter, WT : Wall Thickness		*3. Direction: L : Longitudinal, T : Transverse	
	BPE	Black Pipe Ends	CPE	Coated Pipe Ends	*4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, YP method : 0.5% Underload	*5. H : Heat analysis, P : Product analysis
	BPEB	BPE Beveled	GPB	GPB Beveled	*6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace	*7. E : Base Metal, W : Weld Line, H : Heat Affected Zone
	BTE	Black Threaded Ends	GTE	Coated Threaded Ends	*8. Specimen Size -A:10x10mm, B:10x7.5mm, C:10x6.4mm, D:10x5.0mm, Direction: Transverse	*9. TP : Testing Pressure, H.T : Holding Time
	BTC	Black Threaded & Coupled	GTC	Coated Threaded & Coupled	*10. Heat Treatment Seam Normalizing Reference Standard 3.2.6 Drilled Hole	*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test
					*12. TPI : Threads per inch, ETL : Effective length of threads	*13. NDT : UT

SURVEYOR  
HMC C-30-05-(21)

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MANAGER OF QA TEAM



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

# CERTIFICATE OF QUALITY



주식회사 휴스틸  
**HUSTEEL Co., Ltd.**  
HEAD OFFICE SHINAN B/D 15R, 943-19, DAECHE-DONG,  
KANGNAM-GU, SEOUL, KOREA  
DAEBUL PLANT 3RD, DAEBUL INDUSTRIAL COMPLEX, SAMHO-BUP,  
YEONGAM-GUN, JEOLLANAM-DO, KOREA

CERTIFICATE No. : 150413-101

MANUFACTURED No. : 15-03-212

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS. SA DE CV



Original certificate can be verified through QR code Application.

ISSUED DATE : 2015.04.13

COMMODITY : E.R.W STEEL PIPE  
API 5L X-42 PSL1/

SPECIFICATION : ASTM A53B

NO.	HEAT NO	QUAN-TITY PCS	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT lb/ft	TENSILE TEST						CHEMICAL COMPOSITION(%)																		
					O.D inch	WT inch	LENGTH ft		DIR	TS PSI	YS PSI	EL %	YR %	WTS PSI	DIV	-2			-3			-4				-5	-3						
																		C	SI	Mn	P	S	Cu	NI	Cr	Mo	V	Nb	TI	B	CEQ	PCM	
22	306124	48	BPEB	16	16.000	0.375	20	62.64	T	72,661	51,631	40	71	76,432	H	16	2	83	13	3	10	10	10	50	10	10	10						
23	306123	84	BPEB	16	16.000	0.375	20	62.64	T	74,111	49,021	39	66	75,271	P	14	2	85	11	2	3	2	15	10	8	27	9						
24	N39433	42	BPEB	18	18.000	0.250	20	47.44	T	69,180	61,058	38	88	73,241	H	16	2	82	13	2	10	10	10	50	10	10	10						

NO.	HYDROSTATIC TEST			HEAT TREATMENT °C	ZINC COATING TEST		THREADS		HARDNESS TEST HV	IMPACT TEST ( ° ) °C		*13 N · D · T { UT }	FLATTENING OR BEND TEST	VISUAL & DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM				
	TP PSI	H.T sec	RESULT		WZC g/m²	CST TIMES	TPI	EFL inch		Energy (Ind, J)	SIZE						FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST	GOOD
	*9				*10	*11	*12			*7	*8									
22	1680	5	GOOD	950								GOOD	GOOD	GOOD	GOOD	GOOD				
23	1680	5	GOOD	950								GOOD	GOOD	GOOD	GOOD	GOOD				
24	1000	5	GOOD	930								GOOD	GOOD	GOOD	GOOD	GOOD				

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

NOTE	*1. Type of Pipe Ends		*2. O.D : Outside Diameter, WT : Wall Thickness		*3. Direction L : Longitudinal, T : Transverse	
	EPE	Black Pipe Ends	GPE	Galvanized Pipe Ends	*4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, YP method : 0.5% Underload	
	BPEB	BPE Bevelled	GPEB	GPE Bevelled	*5. H : Heat analysis, P : Product analysis	
	BTE	Black Threaded Ends	GTE	Galvanized Threaded Ends	*6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace	
	BTC	Black Threaded & Coupled	GTC	Galvanized Threaded & Coupled	*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. TP : Testing Pressure, HT : Holding Time	
					*10. Heat Treatment : Seam Normalizing Reference Standard : 3.2 & Drilled Hole	
					*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test	
					*12. TPI : Threads per inch, EFL : Effective length of threads	
					*13. NDT : UT	

SURVEYOR  
HMC C-30-05-(21)

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MANAGER OF QA TEAM



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

ISSUED DATE : 2015.04.13

COMMODITY : E.R.W. STEEL PIPE  
API 5L X-42 PSL1/

SPECIFICATION : ASTM A53B

# CERTIFICATE OF QUALITY



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

CERTIFICATE No. : 150413-101

MANUFACTURED No. : 15-03-212

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS. SA DE CV



Original certificate can be verified through QR Application.

NO.	HEAT NO	QUANTITY	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT	TENSILE TEST					CHEMICAL COMPOSITION(%)																					
					OD	WT	LENGTH		TS	YS	EL	YR	WTS	DIR.	C	SI	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	CEQ	PCM						
		PCS	*1			inch	inch	ft	lb/ft	PSI		%	%	PSI	-2			-3			-4			-5		-3									
25	N35288	65	BPEB	18	18.000	0.250	20	47.44	T	69,760	54,677	37	78	69,325	H	6	2	75	12	6	22	10	30	TR	10	150	10								
26	N12441	1	BPEB	18	18.000	0.250	20	47.44	T	70,195	59,173	35	84	76,432	P	6	2	78	12	6	21	10	32	TR	10	13	205	8							
27	N12436	4	BPEB	18	18.000	0.250	20	47.44	T	69,470	59,028	34	85	75,126	H	6	2	77	12	8	16	10	24	TR	10	14	218	9							

NO.	HYDROSTATIC TEST			HEAT TREATMENT	ZINC COATING TEST		THREADS		HARDNESS TEST	IMPACT TEST			*13 N · D · T (UT)	FLATTENING OR BEND TEST	VISUAL & DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM
	TP	H.T	RESULT		WZC	CST	TPi	RTL		( 0 ) °C							
		PSI	sec			g/m <sup>2</sup>	TIMES	inch	HV	DIV	Energy (Ind. J)	SIZE	GOOD	GOOD	GOOD	GOOD	
		*9		*10	*11		*12				*7	*8	FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST	GOOD	
25	1000	5	GOOD	930													
26	1000	5	GOOD	930													
27	1000	5	GOOD	930													

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

\*1. Type of Pipe Ends  

BPE	Bevel Pipe Ends	GPE	Galvanized Pipe Ends
BPEB	BPE Bevelled	GPEB	GPE Bevelled
BTE	Black Threaded Ends	GTE	Galvanized Threaded Ends
BTC	Black Threaded & 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, YP 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. TP : 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, RTL : Effective length of threads  
\*13. NDT : UT  
Reference Standard : 3.2 F Drilled Hole

SURVEYOR  
HMC C-30-05-(21)  
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본 검사증서에 영기된 규격종로 의 사물시 안전상 문제가 발생할 수 있으며, 검사증명서 위·변조시 사문서 위조(형법231조)로 불이익을 당하실 수 있습니다.  
MANAGER OF Q.A TEAM

PAGE : 9 / 13  
**COPY**







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

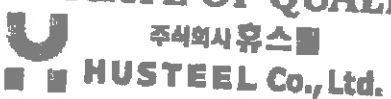
ISSUED DATE : 2015.04.13

COMMODITY : E.R.W. STEEL PIPE

API 5L X-42 PSL1/

SPECIFICATION : ASTM A53B

# CERTIFICATE OF QUALITY



HEAD OFFICE SHINAN B/D 15F, 943-19, DAECHE-DONG,  
KANGNAM-GU, SEOUL, KOREA  
DABUL PLANT 3RO, DABUL INDUSTRIAL COMPLEX, SAMHO-EUP,  
YEONGAM-GUN, [ROLLANAM-DO, KOREA

CERTIFICATE No. : 150413-101

MANUFACTURED No. : 15-03-212

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS. SA DE CV



Original certificate can be verified through QR Application.

NO.	HEAT_NO	QUAN-TITY	TYPE	NOMINAL SIZE	ORDER SIZE			WEIGHT	TENSILE TEST					CHEMICAL COMPOSITION(%)																				
					G.D	WT	LENGTH		TS	YS	EL	YR	WTS	DIV	C	SI	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	CBQ	PCM					
		PCS	*1		inch	inch	ft	lb/ft	PSI	%	%	PSI	-2		-3			-4				-5		-3										
37	N20910	1	BPEB	24	24.000	0.500	20	125.61	T	67,295	54,097	44	80	71,936	H	6	1	78	15	4	14	10	20	TR	10	200	10							
38	M74516	6	BPEB	24	24.000	0.500	20	125.61	T	70,050	54,822	41	78	79,912	P	6	2	78	15	4	12	7	24	10	9	222	7							
														P	6	2	77	14	4	12	7	22	10	7	212	6								
														H	6	1	77	16	6	15	10	20	TR	TR	220	10								
														P	5	1	80	16	6	14	6	26	10	8	261	7								
														P	5	1	79	16	6	14	6	25	10	7	256	7								

NO.	HYDROSTATIC TEST			HEAT TREATMENT	ZINC COATING TEST		THREADS		HARDNESS TEST	IMPACT TEST		*13 N · D · T ( UT )	FLATTENING OR BEND TEST	VISUAL & DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM
	TP	H.T	RESULT		WZC	CST	TPI	ETL		( 0 ) °C	Energy (nd, J)					
	PSI	sec		°C	g/㎡	TIMES	inch	HV	DIV	*8	GOOD	GOOD	GOOD	GOOD	GOOD	
37	1580	10	GOOD	950								FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST		
38	1580	10	GOOD	950												

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

NOTE	*1. Type of Pipe Ends	*2. G.D : Outside Diameter, WT : Wall Thickness	*3. Direction: L : Longitudinal, T : Transverse
	BPEB Back Flange Ends	*4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, YP method : 0.5% Underload	*7. B : Base Metal, W : Weld Line, H : Heat Affected Zone
	BPEB BPS Beveled	*5. H : Heat analysis, P : Product analysis	*10. Heat Treatment: Seam Normalizing Reference Standard: S.2 @ Drilled Hole
	BTR Back Threaded Ends	*6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Traces	*11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test

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)

HMC C-30-05-(21)

본 검사결과서에 영기밀 규격용도 외 사용시 안전상 문제가 발생할 수 있으며, 검사결과서 위·변조시 사내서 위조(형법231조)로 불이익을 당하실 수 있습니다.

MANAGER OF QA TEAM

COPY

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