CERTIFICATE NO.(성적서 번호) : A202601

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CONTRACT(P/O) NO.(계약번호) :

PR NO.(주문서 번호) : S200111791

COMMODITY(제품명) : CARBON STEEL PIPE

SPECIFICATION(제품규격) : API 5L B PSL1/ASTM 53B

검 사 증 명 서
MILL TEST CERTIFICATE
EN 10204 TYPE 3.1 - 2004

HYUNDAI STEEL 현대제철주식회사 HYUNDAI STEEL

울산 공장 (ULSAN PLANT) : 울산광역시 북구 염포로 706 (우)683-711
706, Yeompo-ro, Buk-gu, Ulsan, Korea
TEL:82-52-280-0114, FAX:82-52-287-8916

CUSTOMER(고객사) : PLESA ANAHUAC Y CIAS S.A. DE C.V.

No.	TYPE OF PIPE END ※1	SIZE OUT-DIA x THICK x LENGTH (외경 X 두께 X 길이)	PCS (본)	WEIGHT (KG)	TOTAL LENGTH (F)	HEAT No.	Hydrostatic Test Pressure PSI	Hydrostatic Test Time SEC	Spec. Min.	Spec. Max.	※2	Tensile Strength Base Mpa	Tensile Strength Weld Mpa	Yield Strength Mpa	Y/R Rate %	E.L %	※3	Hardness Test	※2	CVN Specimen size	CVN Absorbed Energy (Joule) 1	2	3	Avg	Shear Area(%)	D.W.T Shear Area(%) 1	2	Avg
												Tensile Properties (Gage length : 2 inch)						Hardness Test & CVN Impact Test			CVN Impact Test (℃)					D.W.T Test (℃)		
												415	415	245		30					Criteria : In the case of 10X10							
1	EB BE	16" X 0.500" X 21.000 F	23	18,151	483.0	SF64006	1340	5			T	476	506	353		44												
		TOTAL	23	18,151	483.0																							

No.	Heat No.	Spec.		C	Mn ※7	P	S	Cu	Ni	Cr	Mo	B	CM1 ※8	CM2 ※9	Zn Coating	Copper Sulfate Test Time	Copper Sulfate Test Result	HC-Test Collapse Pressure	H.I.C Test CLR	CTR	CSR	S.S.C.C Test
				Chemical Composition											Zn-Coating Test			HC-Test	H.I.C Test			
				2	2	3	3	2	2	2	2	4	2	2				psi	%	%	%	
		Min.	※4																			
		Max.		26	120	30	30	50	50	50	15	10	6	15								
1	SF64006		H	16	87	17	6															
			P	15	85	15	7	1	2	3	TR	2	TR	TR								
			P	16	85	15	8	1	2	3	TR	2	TR	TR								

※2:x100 3: x1000 4:x10000

Remark

※ 1) Type of pipe end(관종)
EB:ERW Black BE:Bevel End
※ 2) L: Longitudinal, T: Transverse
※ 3) B: Base, W: Weld Line, H: Heat Affected Zone
※ 4) H: Heat(Ladle) Analysis, P: Product Analysis
※ 7) For each reduction of 0.01% below the specified max. for C, an increase of 0.05% above the specified max. for Mn is permissible, up to a max. of 1.65%
※ 8) CM1=Nb+V
※ 9) CM2=Nb+V+Ti
※ SPEC YEAR-API 5L 45th Edition(2013)/ASTM A53(2012)

ORIGINAL

Heat Treatment	Non-Destructive Test (U.T)	Flattening	Visual & Dimension	Residual Magnetism (Gauss)
GOOD	GOOD	GOOD	GOOD	GOOD

본 제품은 관련 규격에 합격되었음을 보증합니다.
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN ACCEPTED IN ACCORDANCE WITH THE PRESCRIBED SPECIFICATION AND ORDER.
* 본 검사증명서에 명기된 규격용도외 사용시 안전상 문제가 발생할 수 있으며, 검사증명서 위.변조시 사문서 위조로 불이익을 당하실 수 있습니다.

SURVEYOR

H.K CHOI
Q.A Manager