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COMMODITY(제품명) : E.R.W. CARBON STEEL PIPE

SPECIFICATION(제품규격) : ASTM A53 B

검사증명서
MILL TEST CERTIFICATE
EN 10204 TYPE 3.1 - 2004

CUSTOMER(고객사): 현대종합상사(주)

HYUNDAI STEEL

울산공장 : 울산광역시 북구 염포로 705
705, Yeompo-ro, Buk-gu, Ulsan, Korea

No.	TYPE OF PIPE END ※1	SIZE OUT-DIA×THICK×LENGTH (외경×두께×길이)	PCS (본)	WEIGHT (KG)	TOTAL LENGTH (M)	HEAT No.	Hydrostatic Test Pressure	Hydrostatic Test Time	Spec.	※2	Tensile Properties(Gage Length : 2 inch) Tensile Strength Base	Tensile Strength Weld	Yield Strength	Y/R Rate	E.L	Hardness Test ※3 Max. Value	※2 ※3	CVN Impact Test CVN Impact Test(℃) Absorbed Energy(Joule) 1	2	3	avg	Shear Area (%)	D.W.T Test(℃) Shear Area(%) 1	2	avg
							PSI	SEC	Min.		MPa	MPa	MPa	%	%			Specimen size								
									Max.									Csleep : In the case of 10×10)								
1	EB BE	14" X 0.250 " X 6,150 M	150	50,452	922.5	SB73670	750	5		T	436	438	269		43											
		TOTAL	150	50,452	922.5																					

No.	Heat No.	Spec.	Chemical Composition(%) 2:×10 3:×1000 4:×10000 C	Si	Mn ※7	P	S	Cu	Ni	Cr	Mo	V	CMS ※10	Zn-Coating Test Zn Coating	Copper Sulfate Test Time	Copper Sulfate Test Result	HIC-Test Collapse Pressure	H.I.C Test CLR	CTR	CSR	S.S.C.C Test
		※4	2	2	2	3	3	2	2	2	3	3	3				psi	%	%	%	
		Min.																			
		Max.	30		120	50	45	40	40	40	150	80	1000								
1	SB73670	H	17	1	48	10	3														
		P	17	1	48	8	4	1	1	2	31	TR	71								
		P	17	1	48	8	4	1	1	2	31	1	72								

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 C max. an increase of 0.06% Mn above the specified max. will be permitted up to a max. of 1.65%
※10) CMS=Cu+Ni+Cr+Mo+V
※ SPEC YEAR - ASTM A53(2018ED)

Heat Treatment	Non-Destructive Test (UT)	Flattening / Bending Test	Visual & Dimension
GOOD	GOOD	GOOD	GOOD

본 제품은 관련 규격에 합격되었음을 보증합니다.
This material has been manufactured, sampled, tested and inspected in accordance with the specification and has been found to meet the requirements.
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SURVEYOR

H.K. CHOI
QA Manager

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