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 CONTRACT(P/O) NO.(계약번호) : 25598
 PR NO.(주문서번호) : F170600262
 COMMODITY(제품명) : E.R.W. CARBON STEEL PIPE
 SPECIFICATION(제품규격) : ASTM A53 B

검사증명서

MILL TEST CERTIFICATE

EN 10204 TYPE 3.1 - 2004



출산공장 : 울산광역시 북구 염포로 706
 706, Yeompo-ro, Buk-gu, Ulsan, Korea



CUSTOMER(고객사): 현대중합상사(주)

No.	TYPE OF PIPE END ※1	SIZE OUT-DIA×THICK×LENGTH (외경×두께×길이)	PCS (본)	WEIGHT (KG)	TOTAL LENGTH (F)	HEAT No.	Hydrostatic Test		Spec. ※2 Min. Max.	Tensile Properties(Gage Length : 2 inch)					Hardness Test		Hardness Test & CVN Impact Test					D.W.T Test(°C)						
							Pressure	Time		Tensile Strength		Yield Strength	Y/R Rate	E.L	Max. Value	CVN Impact Test(°C)				Shear Area(%)								
										Base	Weld					Absorbed Energy(Joule)				Shear Area (%)	Criteria : In the case of 10×10)							
							PSI	SEC		MPa	MPa	MPa	%	%	※3	Specimen size	1	2	3		avg	1	2	avg				
1	EB BE	10" X 0.365 " X 20.177 F	70	25,960	1,412.39	P34085	1430	5	T	467	522	389		39														
2	EB BE	10" X 0.365 " X 20.177 F	56	20,768	1,129.912	ZC1213	1430	5	T	492	528	358		38														
3	EB BE	10" X 0.365 " X 20.177 F	80	29,668	1,614.16	ZG3612	1430	5	T	492	529	343		41														
TOTAL			206	76,396	4,156.462																							

No.	Heat No.	Spec. ※4 Min. Max.	Chemical Composition(%) 2 : ×100 3 : ×1000 4 : ×10000												Zn-Coating Test		HC-Test Collapse Pressure	H.I.C Test			S.S.C Test	Remark								
			C	Si	Mn ※7	P	S	Cu	Ni	Cr	Mo	V	CM3 ※10	Zn Coating	Copper Sulfate Test	psi	CLR	CTR	CSR											
			2	2	2	3	3	2	2	2	3	3	3	Time	Result		%	%	%											
			30		120	50	45	40	40	40	150	80	1000																	
1	P34085	H	7	1	76	15	7																							
		P	8	1	76	13	7	2	1	3	4	TR	65																	
2	ZC1213	H	16	2	66	15	8																							
		P	15	2	60	14	7	2	1	3	2	TR	62																	
3	ZG3612	H	18	2	63	14	5																							
		P	16	3	61	12	5	2	1	3	3	1	62																	
		P	16	3	61	12	5	2	1	3	3	1	61																	

Heat Treatment	Non-Destructive Test (U.T)	Flattening / Bending Test	Visual & Dimension
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 규격용도의 사용시 안전상 문제가 발생할 수 있으며, 검사증명서 위.변조시 사문서 위조로 불이익을 당하실 수 있습니다.

H.K. CHOI

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SURVEYOR