

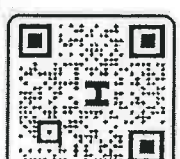
CERTIFICATE NO.(성적서 번호) : D001580
 DATE OF SSL(발행일지) : 2019-12-05
 CONTRACT(P/O) NO.(계약번호) : 28981
 P/N NO.(주문서 번호) : F191000108
 COMMONITY(공동성명) : ERW CARBON STEEL PIPE
 SPECIFICATION(세부규격) : ASTM A53B

검사증명서

MILL TEST CERTIFICATE

EN 10204 TYPE 3.1 - 2004

CUSTOMER(고객사): 현대중합상사(주)



No	TYPE OF PIPE END	SIZE OUT-DIA*THICK*LENGTH (외경*두께*길이)	PSS (%)	WEIGHT (KG)	TOTAL LENGTH (M)	HEAT NO	Hydrostatic Test		Tensile Properties(Gage Length : 2 inch)				Hardness Test			CNI Impact Test		CNI/T Test (°C)
							Pressure (MPa)	Time (min)	Tensile Strength	Yield Strength	Elongation	Reduction of Area	HRB	HRC	Charpy	Absorb Energy(Joule)	Shear Area(%)	
1	EB BE	10" X 0.250" X 6150 M	100	25,676	6.5	G79201	980	5	T	508	524	392						
2	EB BE	10" X 0.250" X 6150 M	84	21,569	5.166	G79202	990	5	T	524	524	408						
3	EB BE	10" X 0.250" X 6150 M	105	26,980	6.4575	SU07717	990	5	T	500	580	346						
		TOTAL	289	74,204	1,777.35													

No	Heat No	Chemical Composition(%)										Zn-Coating Test		H-C-Test		HIC Test			Sulfur Test	
		C	SI	Mn	P	S	CU	NI	CR	MO	V	CHG #10	Zn Coating	Coarse Sulfide Test	Collaps Pressure	CLR	CTR	CSR		
1	G79201	H	9	17	98	13	3													
		P	9	16	98	13	4	1	2	22	2	81								
2	G79202	H	9	17	99	18	3													
		P	9	16	97	12	4	1	2	22	2	80								
3	SU07717	H	15	14	109	10	3													
		P	15	14	109	10	6	2	1	28	2	76								

Heat Treatment: Non-Destructive Test (UT) GOOD; Hydrostatic Bending Test: GOOD; Visual & Dimension Test: GOOD

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 This material has been manufactured, sampled, tested and reported in accordance with the specification and has been found to meet the requirements.
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* This Mill Test Certificate is a copy that has been printed from original electronic document (with digital signature).
 You are able to check an original electronic document at HyundaiSteel's customer portal. (http://smhyundai-steel.com/cei/loain.jsp) * QRcode scanner App : QRae!

H.K. CHOI
QA Manager