

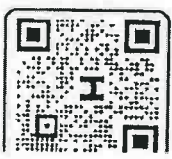
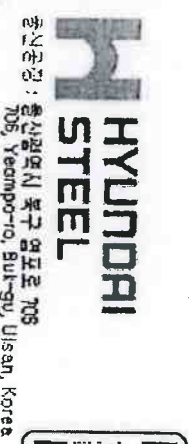
CERTIFICATE NO(증서번호) : DCO1821
 DATE OF ISSUE(발행일자) : 2019-12-05
 CONTRACT(P/O) NO(계약번호) : 28991
 PR NO.(주문서번호) : F191000108
 COMMODITY(제품명) : ERW CARBON STEEL PIPE
 SPECIFICATION(제품규격) : ASTM A53 B

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)	PCS (본)	WEIGHT (KG)	TOTAL LENGTH (M)	HEAT No	Hydraulic Test			Tensile Properties(Gage Length: 2 inch)			Hardness Test			CWI Impact Test	DWIT Test(°C)
							PSI	SEC	MIN	MIN	MAX	Tensile Strength Base	Weld	Yield	Y/R		
1	EB BE	12" X 0.250" X 6.150 M	69	21,094	424.35	9742023	820	5	1	590	570	405					
2	EB BE	12" X 0.250" X 6.150 M	185	55,556	1,137.75	9951516	820	5	T	511	547	387					
3	EB BE	12" X 0.250" X 6.150 M	140	42,800	861	KF149	820	5	T	487	550	365					
4	EB BE	12" X 0.250" X 6.150 M	20	6,114	123	P9513	820	5	T	554	565	474					

No	HEAT No.	Spec	Chemical Composition(%)										Zn Coating		H-C-Test		HLC-Test		SSC-Test	Remark	
			C	S	Mn	P	S	Cu	N	Cr	Mo	V	CNiS	Time	Result	Collaps Pressure	psi	Q.R			CTR
1	9742023	H	18	1	62	15	3														
2	9951516	P	19	1	64	13	3														
3	KF149	H	18	2	62	16	3														
4	P9513	P	18	1	63	14	2														

Heat Treatment: Non-Destructive Test (GOOD), Bending Test (GOOD), Visual & Dimension (GOOD)

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CA Manager

H.K. CHOI