

CERTIFICATE NO.(증서 번호) : D011582
 DATE OF ISS.(발행 일자) : 2019-12-05
 CONTRACT(P/O) NO.(계약번호) : 28991
 PR NO.(주문서번호) : F191000108
 CUSTOMER(고객사) : E.R.W. CARBON STEEL PPE
 SPECIFICATION(제품규격) : ASTM A53 B

검사증명서

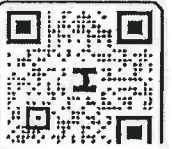
MILL TEST CERTIFICATE

EN 10204 TYPE 3.1 - 2004

원대중합강사(주)

HYUNDAI STEEL

중심공장 : 울산광역시 북구 영포로 705
 705, Yedampo-ro, SUI-9U, Ulsan, Korea



No	TYPE OF PIPE END	SIZE	PCS	WEIGHT (KG)	TOTAL LENGTH (M)	HEAT No	Hydrostatic Test			Tensile Properties(Spec Length: 2 inch)				Hardness Test			C/N Impact Test		D.W.T Test (°C)
							Spec	Time	Max	Base	Weld	Yield	YR	EL	Max Value	Specimen	Average	Shear Area(%)	
1	EB BE	16" X 0.312" X 6.150 M	1	479	6.15	G30401	820	5	T	535	500	424	38						
2	EB BE	16" X 0.312" X 6.150 M	21	10,052	129.15	R00735	820	5	T	465	457	389	41						
3	EB BE	16" X 0.312" X 6.150 M	4	1,915	24.6	R28137	820	5	T	532	507	424	39						
4	EB BE	16" X 0.312" X 6.150 M	9	4,308	55.35	R28140	820	5	T	530	507	420	39						

Chemical Composition(%)
 C: 0.22, S: 0.012, Mn: 0.035, P: 0.008, S: 0.005, Cu: 0.01, Ni: 0.005, Cr: 0.01, Mo: 0.005, V: 0.005, Nb: 0.005

Zn-Coating Test
 Zn Coating: 530g/m², Copper Sulphate Test: 507g/m²

HC-Test
 Collapse Pressure: 39psi

H.I.C Test
 CLR: %, CTR: %, CSR: %

Remarks
 * (1) Type of pipe end(관종)
 EB: End Bevel, BE: Bevel End
 * (2) L: Longitudinal T, Transverse
 * (3) B: Base, W: Weld Line, H: Heat Affected Zone
 * (4) H: Heat(Heat) Analysis, P: Product Analysis
 * (7) For each reduction of 0.01% below the specified C max an increase of 0.05% Mn above the specified max.
 * (10) CWS=Q+Mn+Cr+Mo+V
 * SPEC YEAR - ASTM A53(2015ED)

H.K. CHOI

QA Manager

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