

검사증명서

MILL TEST CERTIFICATE

EN 10204 TYPE 3.1 - 2004

CUSTOMER(고객사): 현대종합상사(주)

현대종합상사(주)



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706, Yeompo-ro, Buk-gu, Ulsan, Korea



No	TYPE OF PIPE END	SIZE OUT-DIA*THICK*LENGTH (외경*두께*길이)	PCS (본)	WEIGHT (KG)	TOTAL LENGTH (F)	HEAT No.	Hydrostatic Test		Tensile Properties(Gage Length: 2inch)				Hardness Test		Hardness Test & CN Impact Test		DWT Test(C)																																																																																																						
							Pressure	Time	Tensile Strength	Base	Weld	Yield Strength	%	Y/R	EL	Max. Value		Specimen size	Area (%)	Shear Area(%)																																																																																																			
1	EB BE	14" X 0.438" X 201.77 F	23	13,375	464.071	SCS2741	1310	5	474	497	330		45																																																																																																										
TOTAL			23	13,375	464.071																																																																																																																		
<p>Chemical Composition(%)</p> <table border="1"> <thead> <tr> <th>Spec</th> <th>C</th> <th>SI</th> <th>Mn</th> <th>P</th> <th>S</th> <th>CU</th> <th>NI</th> <th>CR</th> <th>MO</th> <th>V</th> <th>CMG</th> </tr> </thead> <tbody> <tr> <td>※4</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Min</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Max</td> <td>30</td> <td></td> <td>120</td> <td>50</td> <td>45</td> <td>40</td> <td>40</td> <td>40</td> <td>150</td> <td>80</td> <td>1000</td> </tr> <tr> <td>H</td> <td>19</td> <td>1</td> <td>85</td> <td>11</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>P</td> <td>18</td> <td>1</td> <td>84</td> <td>11</td> <td>1</td> <td>3</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>63</td> </tr> <tr> <td>P</td> <td>18</td> <td>1</td> <td>85</td> <td>11</td> <td>1</td> <td>3</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>65</td> </tr> </tbody> </table> <p>Zn-Coating Test</p> <table border="1"> <thead> <tr> <th>Zn Coating</th> <th>Copper Sulfate Test</th> <th>HC-Test</th> <th>HIC Test</th> <th>S.S.C.C Test</th> </tr> </thead> <tbody> <tr> <td></td> <td>Time</td> <td>Result</td> <td>CLR</td> <td>CTR</td> <td>CSR</td> </tr> <tr> <td></td> <td></td> <td></td> <td>%</td> <td>%</td> <td>%</td> </tr> </tbody> </table> <p>Remark</p> <p>※1) Type of pipe end(관종) EB:End, BE:Base End</p> <p>※2) L:Longitudinal, T: Transverse</p> <p>※3) B: Base, W: Weld Line, H: Heat Affected Zone</p> <p>※4) H: Hall's, A: Analysis, P: Product Analysis</p> <p>※7) For each reduction of 0.01% below the specified C max. an increase of 0.05% Mn above the specified max. will be permitted up to a max. of 1.65%</p> <p>※10) CLR: Cu+Ni+C+Mn+V</p>																			Spec	C	SI	Mn	P	S	CU	NI	CR	MO	V	CMG	※4	2	2	2	3	3	2	2	2	3	3	3	Min												Max	30		120	50	45	40	40	40	150	80	1000	H	19	1	85	11	2							P	18	1	84	11	1	3	1	2	2	2	63	P	18	1	85	11	1	3	1	2	2	2	65	Zn Coating	Copper Sulfate Test	HC-Test	HIC Test	S.S.C.C Test		Time	Result	CLR	CTR	CSR				%	%	%
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QA Manager
T. L. Lim

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