

# 产品质量证明书

## MILL'S TEST CERTIFICATE

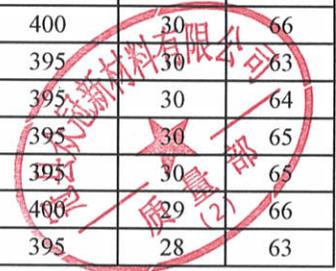
冠县众冠新材料材有限公司

GUANXIAN ZHONGGUAN NEW MATERIALS CO., LTD.

地址：中国山东聊城冠县新世纪工业园

Address:Guan Xian industry Park,Liaocheng,Shandong,China

订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION												签发日期 DATE OF ISSUE		2024-10-7	
标准 SPECIFICATION		ASTM A653												合同号 CONTRACT NO.		ZG202407254101	
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>eL</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
144	1.926	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
146	1.908	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.033	0.23	0.008	0.009	320	400	29	66	
147	1.912	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.21	0.009	0.009	325	395	28	63	
150	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.031	0.25	0.007	0.01	325	395	29	64	
160	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.035	0.26	0.008	0.009	325	400	30	66	
184	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.03	0.22	0.008	0.008	320	395	29	65	
187	1.918	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	400	30	66	
201	1.908	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	325	395	30	63	
202	1.926	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	64	
204	1.914	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
205	1.936	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
217	1.916	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	
219	1.936	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
220	1.932	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
223	1.92	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
226	1.272	149	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	
170	1.912	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
171	1.918	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
175	1.924	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
176	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
179	1.924	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
180	1.9	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	



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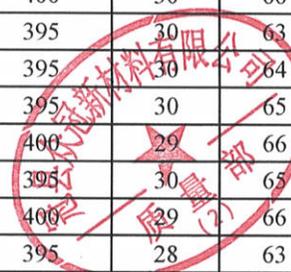
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卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
182	1.92	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
151	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
164	1.912	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
165	1.904	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	
177	1.918	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
178	1.918	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
188	1.904	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
198	1.91	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
203	1.914	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
206	1.908	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	
209	1.932	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
221	1.936	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
224	1.908	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
148	1.872	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	
149	1.934	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
152	1.916	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
158	1.924	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
190	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
192	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
161	1.912	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.033	0.23	0.008	0.009	320	400	29	66	
159	1.916	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.21	0.009	0.009	325	395	28	63	
222	1.934	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.031	0.25	0.007	0.01	325	395	29	64	



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订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION												签发日期 DATE OF ISSUE		2024-10-7	
标准 SPECIFICATION		ASTM A653												合同号 CONTRACT NO.		ZG202407254101	
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
216	1.914	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.035	0.26	0.008	0.009	325	400	30	66	
213	1.92	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.03	0.22	0.008	0.008	320	395	29	65	
210	1.93	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	400	30	66	
207	1.938	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	325	395	30	63	
200	1.924	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	64	
199	1.924	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
181	1.92	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
174	1.926	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	
173	1.932	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
169	1.906	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
168	1.916	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
167	1.92	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	
156	1.918	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
194	1.904	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
212	1.934	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
215	1.906	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
218	1.902	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
185	1.924	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	
189	1.924	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
191	1.928	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
193	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
225	1.91	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	



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订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION												签发日期 DATE OF ISSUE		2024-10-7	
标准 SPECIFICATION		ASTM A653												合同号 CONTRACT NO.		ZG202407254101	
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	$R_{eL}$ (N/mm <sup>2</sup> )	$R_m$ ( N/mm <sup>2</sup> )	A (%)	HRB	
214	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
195	1.926	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
196	1.922	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
197	1.916	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
208	1.932	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
211	1.932	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	
145	1.916	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
153	1.904	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
154	1.912	225	0.35*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
155	1.92	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	
157	1.902	225	0.35*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
162	1.93	225	0.35*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
163	1.906	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
166	1.916	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
172	1.918	225	0.35*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
183	1.928	225	0.35*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
186	1.912	225	0.35*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
68	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
77	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
83	1.954	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
84	1.918	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
85	1.95	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	



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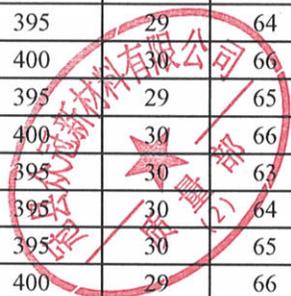
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						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
86	1.934	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
89	1.942	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
90	1.94	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
94	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
100	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
106	1.958	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
112	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
113	1.95	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
119	1.956	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.21	0.009	0.009	325	395	28	63	
120	1.934	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.031	0.25	0.007	0.01	325	395	29	64	
122	1.95	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
130	1.948	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
136	1.942	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
139	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	
97	1.934	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
123	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
141	1.966	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
227	1.962	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	
228	1.96	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
66	1.932	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
72	1.956	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
73	1.948	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	



# 产品质量证明书 MILL'S TEST CERTIFICATE

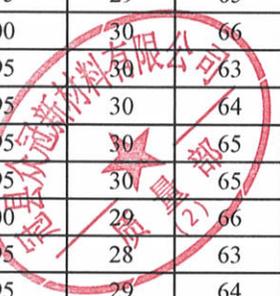
冠县众冠新材料材有限公司

GUANXIAN ZHONGGUAN NEW MATERIALS CO., LTD.

地址：中国山东聊城冠县新世纪工业园

Address:Guan Xian industry Park,Liaocheng,Shandong,China

订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION												签发日期 DATE OF ISSUE		2024-10-7	
标准 SPECIFICATION		ASTM A653												合同号 CONTRACT NO.		ZG202407254101	
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
76	1.932	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
78	1.94	200	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
80	1.942	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
101	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
107	1.95	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
115	1.948	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
129	1.964	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
70	1.94	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	
108	1.948	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
74	1.94	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
75	1.94	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
79	1.93	200	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
87	1.95	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
91	1.932	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
92	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
95	1.93	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
96	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
98	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	
102	1.944	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
103	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
104	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
109	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	



# 产品质量证明书 MILL'S TEST CERTIFICATE

冠县众冠新材料材有限公司

GUANXIAN ZHONGGUAN NEW MATERIALS CO., LTD.

地址：中国山东聊城冠县新世纪工业园

Address:Guan Xian industry Park,Liaocheng,Shandong,China

订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION								签发日期 DATE OF ISSUE		2024-10-7					
标准 SPECIFICATION		ASTM A653								合同号 CONTRACT NO.		ZG202407254101					
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
111	1.936	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
116	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
118	1.942	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
121	1.956	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
138	1.96	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
114	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	
88	1.976	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.033	0.23	0.008	0.009	320	400	29	66	
82	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
81	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.031	0.25	0.007	0.01	325	395	29	64	
137	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.035	0.26	0.008	0.009	325	400	30	66	
131	1.92	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.03	0.22	0.008	0.008	320	395	29	65	
125	1.944	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	400	30	66	
142	1.966	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	325	395	30	63	
64	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	64	
67	1.946	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	65	
69	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	63	
126	1.932	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.033	0.23	0.008	0.009	320	400	29	66	
127	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
132	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.031	0.25	0.007	0.01	325	395	29	64	
143	1.214	121	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.035	0.26	0.008	0.009	325	400	30	66	
65	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.03	0.22	0.008	0.008	320	395	29	65	
71	1.95	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	400	30	66	



# 产品质量证明书

## MILL'S TEST CERTIFICATE

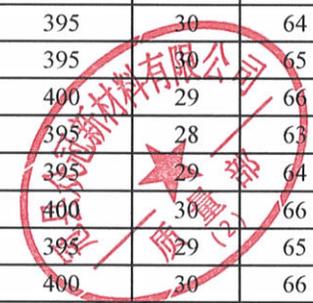
冠县众冠新材料有限公司

GUANXIAN ZHONGGUAN NEW MATERIALS CO., LTD.

地址：中国山东聊城冠县新世纪工业园

Address:Guan Xian industry Park,Liaocheng,Shandong,China

订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION								签发日期 DATE OF ISSUE		2024-10-7					
标准 SPECIFICATION		ASTM A653								合同号 CONTRACT NO.		ZG202407254101					
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
93	1.938	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	325	395	30	63	
99	1.95	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.03	0.22	0.008	0.008	320	395	29	65	
105	1.956	200	0.4*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	400	30	66	
110	1.942	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	325	395	30	63	
117	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	64	
124	1.948	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
128	1.93	200	0.4*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
133	1.936	200	0.4*1000*3000	Chromated	72h	0.9	99.1	183	0.032	0.21	0.009	0.009	325	395	28	63	
134	1.936	200	0.4*1000*3000	Chromated	72h	0.9	99.1	187	0.031	0.25	0.007	0.01	325	395	29	64	
135	1.94	200	0.4*1000*3000	Chromated	72h	0.9	99.1	186	0.035	0.26	0.008	0.009	325	400	30	66	
140	1.952	200	0.4*1000*3000	Chromated	72h	0.9	99.1	182	0.03	0.22	0.008	0.008	320	395	29	65	
043	1.922	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	400	30	66	
046	1.924	160	0.5*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	325	395	30	63	
047	1.928	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	64	
012	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
014	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
016	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
018	1.912	160	0.5*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
019	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
020	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
022	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
024	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	



# 产品质量证明书 MILL'S TEST CERTIFICATE

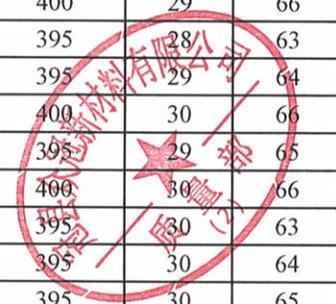
冠县众冠新材料材有限公司

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地址：中国山东聊城冠县新世纪工业园

Address:Guan Xian industry Park,Liaocheng,Shandong,China

订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION												签发日期 DATE OF ISSUE		2024-10-7	
标准 SPECIFICATION		ASTM A653												合同号 CONTRACT NO.		ZG202407254101	
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>eL</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
026	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
028	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	
030	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
002	1.914	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
004	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
006	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
008	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
010	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
032	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
034	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
036	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
039	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	
041	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
042	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	
009	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
035	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
037	1.914	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
044	1.922	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
045	1.922	160	0.5*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
038	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
040	1.914	160	0.5*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
033	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	



# 产品质量证明书

## MILL'S TEST CERTIFICATE

冠县众冠新材料材有限公司

GUANXIAN ZHONGGUAN NEW MATERIALS CO., LTD.

地址：中国山东聊城冠县新世纪工业园

Address:Guan Xian industry Park,Liaocheng,Shandong,China

订货单位 CUSTOMER		SAMSUNG C&T CORPORATION							钢号	CS TYPE B				产品名称 PRODUCT		Hot Dipped Galvanized steel in Sheet	
收货单位 PURCHASER		SAMSUNG C&T CORPORATION												签发日期 DATE OF ISSUE		2024-10-7	
标准 SPECIFICATION		ASTM A653												合同号 CONTRACT NO.		ZG202407254101	
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> ( N/mm <sup>2</sup> )	A (%)	HRB	
027	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.033	0.23	0.008	0.009	320	400	29	66	
029	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
025	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.031	0.25	0.007	0.01	325	395	29	64	
011	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	183	0.035	0.26	0.008	0.009	325	400	30	66	
031	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.03	0.22	0.008	0.008	320	395	29	65	
023	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	400	30	66	
048	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	325	395	30	63	
021	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	64	
013	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	65	
003	1.924	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	
001	1.922	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.033	0.23	0.008	0.009	320	400	29	66	
017	1.916	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
015	1.912	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.031	0.25	0.007	0.01	325	395	29	64	
007	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	183	0.035	0.26	0.008	0.009	325	400	30	66	
005	1.92	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.03	0.22	0.008	0.008	320	395	29	65	
049	1.91	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	400	30	66	
050	1.9	160	0.5*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	325	395	30	63	
051	1.9	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	320	395	30	65	
052	1.902	160	0.5*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	65	
053	1.9	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.033	0.23	0.008	0.009	320	400	29	66	
054	1.9	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.032	0.22	0.008	0.009	320	395	30	65	
055	1.896	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.033	0.23	0.008	0.009	320	400	29	66	



产品质量证明书  
MILL'S TEST CERTIFICATE

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订货单位 CUSTOMER	SAMSUNG C&T CORPORATION								钢号	CS TYPE B				产品名称 PRODUCT	Hot Dipped Galvanized steel in Sheet		
收货单位 PURCHASER	SAMSUNG C&T CORPORATION									签发日期 DATE OF ISSUE	2024-10-7						
标准 SPECIFICATION	ASTM A653									合同号 CONTRACT NO.	ZG202407254101						
卷号 No.	重量 WEIGHT	片数	成品规格 Size(mm)	表面处理 surface treatment	盐雾试验 salt spray test	镀层成分(%) The composition of coating		镀层质量 coating mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION(%)				力学性能 MECHANIC PROPERTIES				
						Al	Zn		C	Mn	P	S	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> (N/mm <sup>2</sup> )	A (%)	HRB	
056	1.896	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.21	0.009	0.009	325	395	28	63	
057	1.892	160	0.5*1000*3000	Chromated	72h	0.9	99.1	183	0.031	0.25	0.007	0.01	325	395	29	64	
058	1.892	160	0.5*1000*3000	Chromated	72h	0.9	99.1	187	0.035	0.26	0.008	0.009	325	400	30	66	
059	1.906	160	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.03	0.22	0.008	0.008	320	395	29	65	
060	1.882	160	0.5*1000*3000	Chromated	72h	0.9	99.1	182	0.032	0.22	0.008	0.009	320	400	30	66	
061	1.9	160	0.5*1000*3000	Chromated	72h	0.9	99.1	185	0.032	0.22	0.008	0.009	325	395	30	63	
062	1.9	160	0.5*1000*3000	Chromated	72h	0.9	99.1	184	0.032	0.22	0.008	0.009	320	395	30	64	
063	1.69	142	0.5*1000*3000	Chromated	72h	0.9	99.1	186	0.032	0.22	0.008	0.009	320	395	30	65	
	437.736																
NOTE: 1、 ReL : lower yield strength    Rm : tensile strength    A: percentage elongation after fracture 2、 1 N/mm2=1 MPa																	
证明本表所列制品，均依材料规格制造及试验，并符合规格之要求 WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULT IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.																	

