

# 产品质量证明书

## MILL'S TEST CERTIFICATE

冠县仁泽复合材料有限公司  
 GUANXIAN RENZE COMPOSITE 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		CUMIC STEEL USA, INC								钢号	SGLCC					产品名称 PRODUCT		热镀锌	
收货单位 PURCHASER		CUMIC STEEL USA, INC														签发日期 DATE OF ISSUE		2025-04-25	
标准 SPECIFICATION		ASTM A792M STRUCTURAL QUALITY GR37														合同号 CONTRACT NO.		ZG202412257199	
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 mass (g/m <sup>2</sup> )	化学成分 CHEMICAL COMPOSITION (%)					力学性能 MECHANIC PROPERTIES				
						Al	Zn	Si		C	Mn	P	S	B	R <sub>el</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> (N/mm <sup>2</sup> )	A (%)	HRB	
7199-057	1.586	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	28	65	
7199-058	1.591	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68	
7199-059	1.576	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68	
7199-060	1.589	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66	
7199-061	1.587	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67	
7199-062	1.595	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64	
7199-063	1.581	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68	
7199-064	1.587	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65	
7199-065	1.567	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68	
7199-066	1.589	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	355	410	29	68	
7199-067	1.58	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	30	66	
7199-068	1.575	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	345	410	30	67	
7199-069	1.578	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66	



7199-070	1.592	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	345	410	30	67
7199-071	1.578	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	340	400	29	64
7199-072	1.592	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	350	405	31	66
7199-073	1.581	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-074	1.583	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-075	1.584	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-076	1.585	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-077	1.582	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-078	1.586	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	355	405	30	66
7199-079	1.589	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.03	0.22	0.008	0.008	0.0014	345	410	30	67
7199-080	1.571	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	30	66
7199-081	1.591	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	345	410	30	67
7199-082	1.592	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	340	400	29	64
7199-083	1.586	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	28	65
7199-084	1.586	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-085	1.589	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-086	1.574	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-087	1.592	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67
7199-088	1.589	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64
7199-089	1.584	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-090	1.591	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-091	1.588	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-092	1.571	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-093	1.598	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-094	1.585	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67
7199-095	1.587	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64
7199-096	1.574	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-097	1.581	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-098	1.572	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-099	1.588	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	355	410	29	68
7199-100	1.584	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	30	66
7199-101	1.586	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	345	410	30	67

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7199-102	1.586	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-103	1.585	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	28	65
7199-104	1.577	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-105	1.59	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-106	1.587	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-107	1.587	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67
7199-108	1.581	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64
7199-109	1.59	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-110	1.584	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-111	1.602	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-112	1.576	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	355	410	29	68
7199-113	1.593	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	30	66
7199-114	1.59	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	345	410	30	67
7199-115	1.585	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-116	1.583	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	345	410	30	67
7199-117	1.593	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	340	400	29	64
7199-118	1.58	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	350	405	31	66
7199-119	1.591	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-120	1.581	200	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-121	2.199	279	KPAX-0.35*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-001	1.842	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	28	65
7199-002	1.798	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-003	1.839	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-004	1.837	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-005	1.829	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67
7199-006	1.823	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64
7199-007	1.823	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-008	1.841	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-009	1.817	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-010	1.844	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	355	410	29	68
7199-011	1.797	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	30	66
7199-012	1.824	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	345	410	30	67

7199-013	1.813	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-014	1.798	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	345	410	30	67
7199-015	1.826	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	340	400	29	64
7199-016	1.818	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	350	405	31	66
7199-017	1.826	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-018	1.813	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-019	1.835	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-020	1.815	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-021	1.827	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-022	1.813	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	355	405	30	66
7199-023	1.822	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.03	0.22	0.008	0.008	0.0014	345	410	30	67
7199-024	1.803	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	30	66
7199-025	1.826	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	345	410	30	67
7199-026	1.821	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	340	400	29	64
7199-027	1.817	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	28	65
7199-028	1.817	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-029	1.815	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-030	1.826	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-031	1.837	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67
7199-032	1.804	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64
7199-033	1.837	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-034	1.806	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-035	1.837	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-036	1.807	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-037	1.832	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-038	1.84	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67
7199-039	1.829	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64
7199-040	1.831	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-041	1.841	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-042	1.821	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-043	1.825	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	355	410	29	68
7199-044	1.818	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	30	66

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7199-045	1.835	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	345	410	30	67
7199-046	1.822	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-047	1.828	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	405	28	65
7199-048	1.832	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	350	410	30	68
7199-049	1.819	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	410	29	68
7199-050	1.82	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	355	405	30	66
7199-051	1.814	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	345	410	30	67
7199-052	1.827	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.035	0.26	0.008	0.009	0.0014	340	400	29	64
7199-053	1.814	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.22	0.008	0.009	0.0014	355	410	30	68
7199-054	1.825	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.033	0.23	0.008	0.009	0.0014	355	405	28	65
7199-055	1.829	200	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.032	0.21	0.009	0.009	0.0014	350	410	30	68
7199-056	2.409	265	KPAX-0.4*1000*3000	CHROMATED	300h	55	43.4	1.6	150	0.031	0.25	0.007	0.01	0.0014	355	410	29	68
	206.316																	

NOTE: 1、 ReL : lower yield strength      Rm : tensile strength      A: percentage elongation after fracture  
2、 1 N/mm2=1 MPa

<p>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.</p>	质量部
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