

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
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MILL TEST CERTIFICATE

TO:

INVOICE NO.: H-TZHS231206
 PO NO: LB2733/LB2739/LB2744/LB2748/LB3400/LB3405/N23144/N23159
 LOADING PORT: XINGANG, CHINA
 DESTINATION: HOUSTON, USA
 SHIPPING MARKS: N/M
 DATE: 13-Dec-23



DESCRIPTION OF GOODS:
 ALUMINUM SHEET 5052/H32
 CERTIFIED TO ALL AA, ASTM B209-REV 2021, AMS/QQ A250/8, AMS 4016M SPECS.
 ALUMINUM SHEET 6061/T6 AND 6061/T651
 CERTIFIED TO ASTM B209-REV 2021, ASME SB-209, AMS 4027P, AMS-QQ-A-250/11 SPECS.
 ALUMINUM SHEET 6061/T6 TB
 CERTIFIED TO ASTM B209-REV 2021, ASME SB-209, AMS 4027N, AMS-QQ-A-250/11, ASTM-B632/18 SPECS.
 CIF HOUSTON, USA

CHEMICAL COMPOSITION

Alloy/ Tmp	Lot No.	Specs(In)	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total	AI
5052 H32	TXG2311W50909	0.5*48*96	0.114	0.261	0.024	0.075	2.366	0.188	0.025	0.020	<0.05	<0.15	REMAINDER
5052 H32	TXG2311W50211	0.5*48*120	0.114	0.260	0.030	0.072	2.407	0.176	0.030	0.016	<0.05	<0.15	REMAINDER
5052 H32	TXG2310W50837	0.5*60*120	0.124	0.332	0.035	0.086	2.408	0.184	0.036	0.018	<0.05	<0.15	REMAINDER
Alloy/ Tmp	Lot No.	Specs(In)	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total	AI
6061 T6	MSH2311W65006	0.125*60*144	0.623	0.562	0.228	0.116	1.010	0.105	0.177	0.025	0.05	<0.15	REMAINDER
6061 T6 TB	MSK2310W65088	0.188*48*192	0.651	0.611	0.224	0.118	1.001	0.115	0.159	0.030	0.05	<0.15	REMAINDER
6061 T6 TB	MSK2311W65009	0.375*60*192	0.651	0.555	0.231	0.126	1.013	0.105	0.192	0.026	0.05	<0.15	REMAINDER
6061 T651	MSK2310W65140	0.5*48.5*96.5	0.667	0.537	0.228	0.102	1.033	0.096	0.156	0.026	0.05	<0.15	REMAINDER
6061 T651	MSK2310W65140	0.5*48.5*144.5	0.667	0.537	0.228	0.102	1.033	0.096	0.156	0.026	0.05	<0.15	REMAINDER
6061 T651	MSK2311W65016	0.75*48.5*144.5	0.669	0.579	0.230	0.122	1.049	0.115	0.144	0.031	0.05	<0.15	REMAINDER
6061 T651	TXG2310W60930	1*48.5*96.5	0.626	0.617	0.220	0.123	1.033	0.092	0.146	0.025	0.05	<0.15	REMAINDER
6061 T651	MSK2311W65094	0.25*48.5*96.5	0.625	0.495	0.229	0.129	1.040	0.108	0.119	0.024	0.05	<0.15	REMAINDER
6061 T651	MSK2311W65090	0.25*60.5*144.5	0.675	0.531	0.230	0.119	1.077	0.108	0.124	0.030	0.05	<0.15	REMAINDER
6061 T651	MSK2312W65035	0.313*60.5*144.5	0.646	0.504	0.229	0.121	1.046	0.105	0.101	0.028	0.05	<0.15	REMAINDER
6061 T651	MSK2311W65005	0.375*48.5*96.5	0.606	0.630	0.230	0.118	1.018	0.106	0.176	0.025	0.05	<0.15	REMAINDER
6061 T651	MSK2309W65152	0.375*48.5*144.5	0.612	0.569	0.217	0.137	1.079	0.107	0.178	0.026	0.05	<0.15	REMAINDER

MECHANICAL PROPERTY

Alloy/ Tmp	Lot No.	Specs(In)	Tensile strength		Yield strength		Elongation
			Mpa	Ksi	Mpa	Ksi	%
STANDARD			215-265		159-199		min 11
5052 H32	TXG2311W50909	0.5*48*96	219	31.8	175	25.4	24
5052 H32	TXG2311W50211	0.5*48*120	223	32.3	171	24.8	23
5052 H32	TXG2310W50837	0.5*60*120	230	33.4	177	25.7	23
Alloy/ Tmp	Lot No.	Specs(In)	Tensile strength		Yield strength		Elongation
			Mpa	Ksi	Mpa	Ksi	%
STANDARD			Min290		Min241		min 10
6061 T6	MSH2311W65006	0.125*60*144	321	46.6	283	41.0	10
6061 T6 TB	MSK2310W65088	0.188*48*192	315	45.7	291	42.2	12
6061 T6 TB	MSK2311W65009	0.375*60*192	306	44.4	276	40.0	12
6061 T651	MSK2310W65140	0.5*48.5*96.5	294	42.6	259	37.6	18
6061 T651	MSK2310W65140	0.5*48.5*144.5	294	42.6	259	37.6	18
6061 T651	MSK2311W65016	0.75*48.5*144.5	298	43.2	263	38.1	12
6061 T651	TXG2310W60930	1*48.5*96.5	293	42.5	245	35.5	11
6061 T651	MSK2311W65094	0.25*48.5*96.5	306	44.4	270	39.2	14
6061 T651	MSK2311W65090	0.25*60.5*144.5	293	42.5	262	38.0	15
6061 T651	MSK2312W65035	0.313*60.5*144.5	305	44.2	267	38.7	16
6061 T651	MSK2311W65005	0.375*48.5*96.5	297	43.1	256	37.1	18
6061 T651	MSK2309W65152	0.375*48.5*144.5	298	43.2	276	40.0	18

PRODUCER: HENAN MINGTAI AL. INDUSTRIAL CO., LTD
 COUNTRY OF MELT AND MANUFACTURE: CHINA