

Customer: COASAN PO#:Y9697 SO#:LEXBG5

MTR#:HECL6443.GIF

Item: .375481205052H32 Bundle:GFG2010W51080-1 Heat#:GFG2010W51080

Y9697-02-03

HECL6443

HENAN MINGTAI AL. INDUSTRIAL CO., LTD

HUIGUO ZHEN, GONGYI, HENAN, CHINA 451283

TEL: 371-67898611 FAX: shaw@hngymt.com

MILL TEST CERTIFICATE

TO: TA CHEN INTERNATIONAL INC.
5855 OBISPO AVENUE
LONG BEACH, CA 90805
TEL: (562)808-8199
FAX: (562)808-8110

INVOICE NO.: H-TZLA201104
PO NO: L92766/L92767/L92768/N15425
LOADING PORT: XINGANG, CHINA
DESTINATION: LA, USA
SHIPPING MARKS: N/M
DATE: 7/Nov

DESCRIPTION OF GOODS:

ALUMINUM SHEET 5052 H32,
CERTIFIED TO ALL AA, ASTM B209-14, AMS/QQ A250/8, AMS 4016M SPECS.
ALUMINUM SHEET 6061 T6
CERTIFIED TO ASTM B209-14, ASME SB-209, AMS 4027N, AMS-QQ-A-250/11 SPECS.
ALUMINUM TREAD PLATE 6061 T6,
CERTIFIED TO ASTM B209-14, ASME SB-209, AMS 4027N, AMS-QQ-A-250/11, ASTM-B632/18 SPECS.
DDP LA, USA

CHEMICAL COMPOSITION

Alloy/ Tmp	Lot No.	Specs(In)	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other s	Al
STANDARD			0.6-1.6	≤0.7	0.1-0.5	0.6-1.2	0.1-0.5	-	≤0.2	-	0.15	REMAIN
4017 H22/24-TB	SYH2009W40066	.063*24°C	0.661	0.468	0.128	1.098	0.240	0.011	0.043	0.032	<0.15	REMAINDER
STANDARD			0.25	0.4	0.1	0.1	2.2-2.8	0.15-0.35	0.1	0.023	0.15	REMAIN
5052 H32	GFG2010W51049	.500*60*120	0.112	0.322	0.025	0.050	2.393	0.181	0.022	0.018	<0.15	REMAINDER
5052 H32	GFG2010W51080	.375*48*120	0.153	0.359	0.047	0.061	2.437	0.180	0.038	0.019	<0.15	REMAINDER
5052 H32	GFG2010W51085	.375*48*96	0.135	0.352	0.039	0.060	2.422	0.171	0.029	0.022	<0.15	REMAINDER
5052 H32	GFG2010W51086	.375*48*120	0.135	0.352	0.039	0.060	2.422	0.171	0.029	0.022	<0.15	REMAINDER
5052 H32	GFG2010W51181	.375*48*120	0.126	0.370	0.047	0.067	2.492	0.178	0.035	0.017	<0.15	REMAINDER
Alloy/ Tmp	Lot No.	Specs(In)	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other s	Al
STANDARD			0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.15	REMAIN
6061 T6	SYH2010W60020	.063*48*144	0.617	0.592	0.245	0.119	1.041	0.134	0.219	0.026	<0.15	REMAINDER
6061 T6	SYK2010W60022	.190*60*144	0.602	0.540	0.237	0.134	1.049	0.108	0.204	0.028	<0.15	REMAINDER
6061 T6-TB	SYK2010W60033	250*48*96	0.584	0.490	0.240	0.112	1.034	0.112	0.161	0.026	<0.15	REMAINDER
6061 T6-TB	SYK2010W60057	250*48*96	0.599	0.454	0.236	0.122	1.053	0.105	0.184	0.024	<0.15	REMAINDER

MECHANICAL PROPERTY

Alloy/ Tmp	Lot No.	Specs(In)	Tensile strength		Yield strength		Elongation %
			Mpa	Ksi	Mpa	Ksi	
STANDARD			120-180		Min82		
4017 H22/24-TB	SYH2009W40066	.063*24°C	143	20.7	90	13.1	14
STANDARD			215-241		Min159		
5052 H32	GFG2010W51049	.500*60*120	217	31.5	161	23.4	27
5052 H32	GFG2010W51080	.375*48*120	216	31.3	160	23.2	25
5052 H32	GFG2010W51085	.375*48*96	217	31.5	161	23.4	21

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

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Item:.375481205052H32 Bundle:GFG2010W51080-1 Heat#:GFG2010W51080

Item:.37548965052H32 Bundle:GFG2010W51085-5 Heat#:GFG2010W51085

5052 H32	GFG2010W51086	.375*48*120	217	31.5	160	23.2	21
5052 H32	GFG2010W51181	.375*48*120	216	31.3	161	23.4	26
STANDARD			Min290		Min242		10
6061 T6	SYH2010W60020	.063*48*144	334	48.4	294	42.6	10
6061 T6	SYK2010W60022	.190*60*144	330	47.9	299	43.4	14
6061 T6-TB	SYK2010W60033	.250*48*96	293	42.5	258	37.4	12
6061 T6-TB	SYK2010W60057	.250*48*96	294	42.6	260	37.7	16

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

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
 河南明泰铝业股份有限公司

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