



12051 Mahoning Avenue North Jackson, OH 44451
Phone: 330.538.4444 Fax: 330.538.4450

Lot # 201

CERTIFICATION TEST REPORT

DATE: 7/7/2008

Customer PROTOMATIC, INC Customer Order No. 23369 Die No. S-2884
Part No 1342AS719 Alloy/Temper 6063/T5 Description HEAT SINK Extrudex Order No. 26328-1

CERTIFICATE OF COMPLIANCE

This is to certify that the material in the amount of 1,063 LBS. shipped to you on 7/7/2008 has been produced from 6063/T5 Aluminum Alloy. This product has been sampled, tested and inspected and has met the requirements in accordance with the latest revision of required specifications

MILL TEST REPORT

MILL TEST TRACER NO.
MT - 21347

MECHANICAL ANALYSIS

Actual Test Data

Specification: ASTM B-221-05
Test Method: ASTM B-557-02a

Yield 28.9
Tensile 33.3
Elongation 15.9

Hardness readings per Rockwell "F" Scale:
67.7 72.5 68.3

CHEMICAL ANALYSIS

SPECIFICATION LIMITS

ALLOY	SI	FE	CU	MN	MG	CR	ZN	TI	AL
6063	.20 - .60	.35 MAX	.10 MAX	.10 MAX	.45 - .90	.10 MAX	.10 MAX	.10 MAX	REM

ACTUAL CAST READINGS

CAST NO	ALLOY	SI	FE	CU	MN	MG	CR	ZN	GA	TI	AL
4531	6063	0.4	0.18	0.04	0.04	0.49	.01	.01	.00	.02	REM

Richard Wyant

AUTHORIZED QUALITY SIGNATURE