

A Curtiss-Wright Business Unit www.imrtest.com

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February 20, 2008

Joe Smith ABC Company 123 Main Street Lansing, NY 14882

TEST REPORT

IMR Report Number 200800000

PO Number

5555

SUMMARY Date Received

February 13, 2008 One sample was received for chemistry, tensile and hardness testing.

Material

6061-T6 Aluminum

The sample **meets** the chemical and tensile requirements of ASTM B 221-06

for a type 6061-T6 aluminum alloy.

Part#

777 Hardness is also reported.

Heat#

EE55EE

The results are on the following page(s).

Specification(s)

ASTM B 221-06



Reviewed by

Reviewed by



Andrew J. Waldron Lead Chemist Jim Andrews, CWI Manager, Mechanical & Machine Shop

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CHEMISTRY

Element	Sample	Specification
Si	0.67	0.40 - 0.8
Fe	0.39	0.7 Maximum
Cu	0.32	0.15 - 0.40
Mn	0.10	0.15 Maximum
Mg	0.88	0.8 - 1.2
Cr	0.07	0.04 - 0.35
Zn	0.06	0.25 Maximum
Ti	0.03	0.15 Maximum
OE	<0.05	0.05 Maximum
OT	<0.15	0.15 Maximum
Al	Remainder Remainder	

OE = Other elements, each.

OT = Other elements, total.

Results in weight percent unless otherwise indicated.

Method(s): ASTM E 1251-04

TENSILE PROPERTIES

	Tensile Strength (ksi)	Yield Strength (ksi)	Elongation (%)
Sample	47.3	42.9	17
Specification	38.0 Minimum	35.0 Minimum	10 Minimum

The sample was machined to a diameter of 0.50 inches; gauge length was 2.00 inches. Yield strength was determined by the 0.2% offset method. Crosshead speed was 0.1 in./min. to yield and 0.5 in./min. to fracture. Method(s): ASTM B 557-06

HARDNESS

	HRBW (median of four readings)
Sample	57

Method(s): ASTM E 18-07