

QUEST MICRO MAXX II

CERTIFIED VALUES

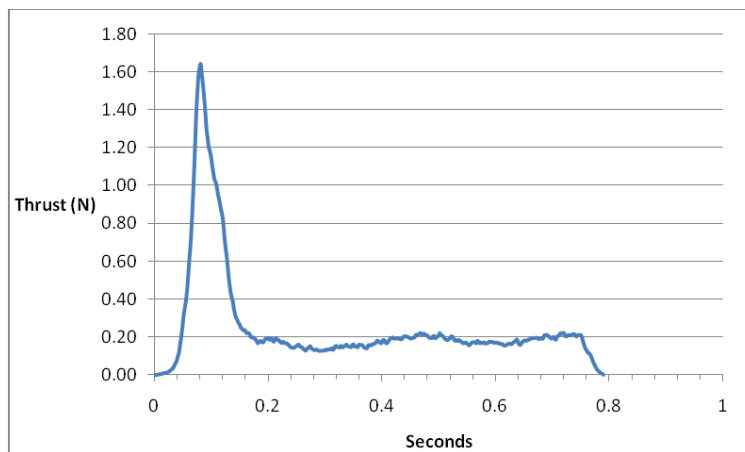
Total Impulse: 0.218 newton-seconds
Delays: 1 second, NE (see remarks)
Propellant Type: Black Powder
Propellant Mass: 0.50 grams
Casing Dimensions: 6mm x 26mm
Certification Date: July 7, 2001
Contest Use Date: September 5, 2001
Certification Type: Model Rocket

STATIC TEST DATA

Date Tested: November 16, 2008
Total Impulse: 0.218 newton-seconds
Peak Thrust: 2.108 newtons (σ 0.46)
Burn Time: 0.772 seconds (σ 0.04)
Average Thrust: 0.284 newtons
Mass After Firing: 0.5 grams

Delay Time (sec)	1	0
Average Measured Delay (sec)	0.857	0
Initial Mass (gm)	1.0g	1.0g

Typical Thrust-Time Curve



REMARKS

“NE” engines have 1 second of smoke after burnout but no ejection charge.

	total impulse	peak thrust	burn time	average thrust	delay
q001	0.220	2.833	0.707	0.312	0.990
q002	0.251	2.351	0.791	0.318	0.990
q003	0.199	1.639	0.780	0.256	0.760
q004	0.220	2.258	0.750	0.294	0.770
q005	0.197	1.643	0.802	0.245	0.960
q006	0.221	1.924	0.803	0.276	0.670
standard deviation	0.020	0.464	0.037		
average	0.218	2.108	0.772	0.284	0.857

	total impulse	peak thrust	burn time	average thrust
q007	0.204	1.718	0.697	0.293
q008	0.228	2.093	0.685	0.333
q009	0.223	2.069	0.708	0.315
q010	0.278	2.237	1.261	0.220
q011	0.231	2.459	0.607	0.380
q012	0.209	1.495	0.753	0.277
standard deviation	0.026	0.350	0.238	
average	0.229	2.012	0.785	0.303

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; @File: q003.txt, @Pts-I: 769, @Pts-O: 31, @Sm: 0, @CO: 0%
; @TI: 0.1991613, @TIa: 0.1991608, @TTe: +0.1%, @ThMax: 1.624927, @ThAvg: 0.255335, @Tb: 0.78
; Exported using ThrustCurveTool, www.ThrustGear.com
MAXXII 0 0 0.76 0.0 0.0 QUEST
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0.026 0.0394607
0.036 0.1214556
0.04 0.206028
0.05 0.444676
0.056 0.680251
0.06 0.899565
0.066 1.358816
0.068 1.475611
0.07 1.56653
0.074 1.624927
0.088 1.190166
0.112 0.830955
0.126 0.439917
0.134 0.319751
0.144 0.248959
0.174 0.1656754
0.206 0.1918503
0.258 0.1262147
0.342 0.1601231
0.366 0.1386081
0.384 0.1794569
0.494 0.218422
0.546 0.1540751
0.56 0.178168
0.608 0.1523896
0.682 0.209499
0.698 0.1837202
0.712 0.220206
0.742 0.209003
0.768 0.040353
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