

QUEST B6-4

CERTIFIED VALUES

Total Impulse: 4.85 newton-seconds
Delays: 4 seconds

Propellant Type: Black Powder
Propellant Mass: 6.5 grams

Casing Dimensions: 18 mm x 70 mm

Certification Date: December 20, 1993

Contest Use Date: December 20, 1993

Certification Type: Model Rocket

STATIC TEST DATA

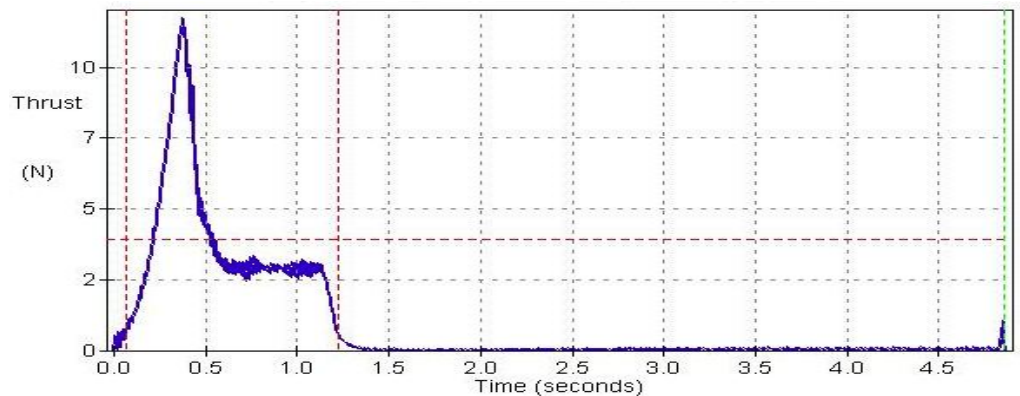
Date Tested: September 25, 2011

Total Impulse: 4.85 newton-seconds (σ 0.15)
Peak Thrust: 12.82 newtons (σ 0.57)
Burn Time: 1.18 seconds (σ 0.02)
Average Thrust: 4.10 newtons

Mass After Firing: 9.7 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	3.48	17.8 g	113 g

TYPICAL THRUST-TIME CURVE



REMARKS

There are three data sheets for Quest B6 motors due to different certification dates and different tested values. This data sheet is for the motors manufactured in China.



; @File: b642.txt, @Pts-I: 970, @Pts-O: 31, @Sm: 0, @CO: 5%
; @TI: 4.79071, @Tla: 4.76991, @Tle: 0.0%, @ThMax: 12.3102, @ThAvg: 4.09813, @Tb: 1.169
; Exported using ThrustCurveTool, www.ThrustGear.com

B6 0 0 4.59 0.0 0.0 EX

0.012	1.2553
0.018	0.3327
0.024	0.5142
0.03	1.5426
0.042	0.4991
0.048	1.5275
0.06	0.8772
0.072	2.0568
0.078	1.4065
0.09	2.4651
0.102	1.9963
0.108	2.7676
0.12	2.4954
0.126	3.2969
0.15	3.5843
0.21	6.3216
0.312	12.3102
0.33	12.2352
0.336	11.2822
0.342	12.0682
0.348	10.7372
0.378	9.3312
0.384	7.7583
0.396	7.4256
0.402	6.246
0.42	5.021
0.492	3.2969
0.93	2.5256
1.116	2.9037
1.2119	0.5747
1.3439	0.0