

ANIMAL MOTOR WORKS J440

CERTIFIED VALUES

Total Impulse: 653.15 newton-seconds
Delays: 20

Propellant Type: Composite / Blue Baboon
Propellant Mass: 313.1 grams

Casing Dimensions: 38 mm × 370 mm

Certification Date: 06-May-1

Certification Type: High Power Rocket

STATIC TEST DATA

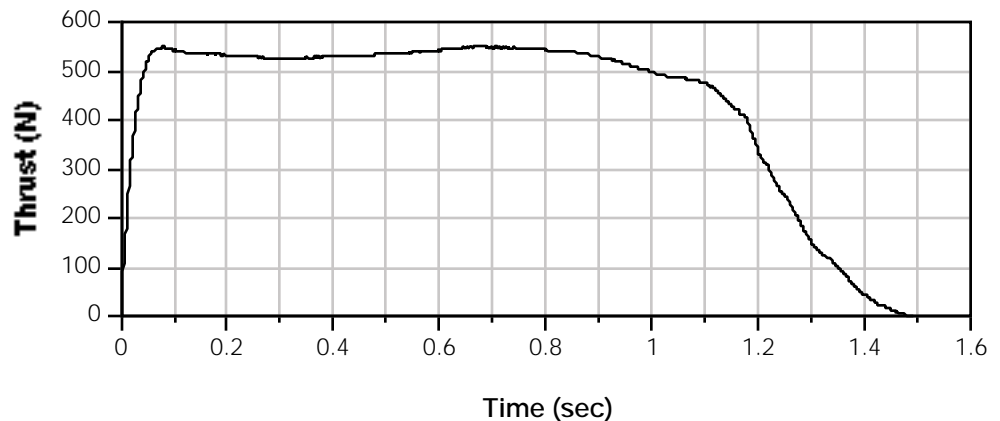
Date Tested: 06-March-30

Total Impulse: 653.15 newton-seconds (0.82)
Peak Thrust: 550.99 newtons (11.11)
Burn Time: 1.49 seconds (0.02)
Average Thrust: 438.14 newtons

Mass After Firing: 385.3 grams

Delay Time	Average Measured Delay	Initial Mass
20	20.63	698.5 g

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 38- 640 motor and Animal Motor Works J440BB-20 reload kit. No substitutions allowed.


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; ANIMAL MOTOR WORKS J440BB RASP.ENG FILE
; The total impulse, peak thrust, average thrust and burn time are
; the same as the averaged static test data on the NAR web site in
; the certification file. The curve drawn with these data points is as
; close to the certification curve as can be with such a limited
; number of points (32) allowed with wRASP up to v1.6.

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      J440   38   370   20   0.313   0.698   AMW
0.013   299.76
0.035   483.71
0.049   536.60
0.067   550.99
0.091   549.76
0.130   541.62
0.225   531.58
0.334   521.55
0.434   529.07
0.550   544.23
0.633   546.74
0.756   546.74
0.881   534.09
0.967   511.41
1.025   488.32
1.079   481.20
1.125   458.52
1.172   410.65
1.191   357.77
1.223   287.22
1.268   214.16
1.319   125.94
1.370   68.021
1.421   25.189
1.490   0.000
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