

ANIMAL MOTOR WORKS I375

CERTIFIED VALUES

Total Impulse: 595.54 newton-seconds
Delays: 20

Propellant Type: Composite / Green Gorilla
Propellant Mass: 340.2 grams

Casing Dimensions: 38 mm × 370 mm

Certification Date: 06-May-1

Certification Type: High Power Rocket

STATIC TEST DATA

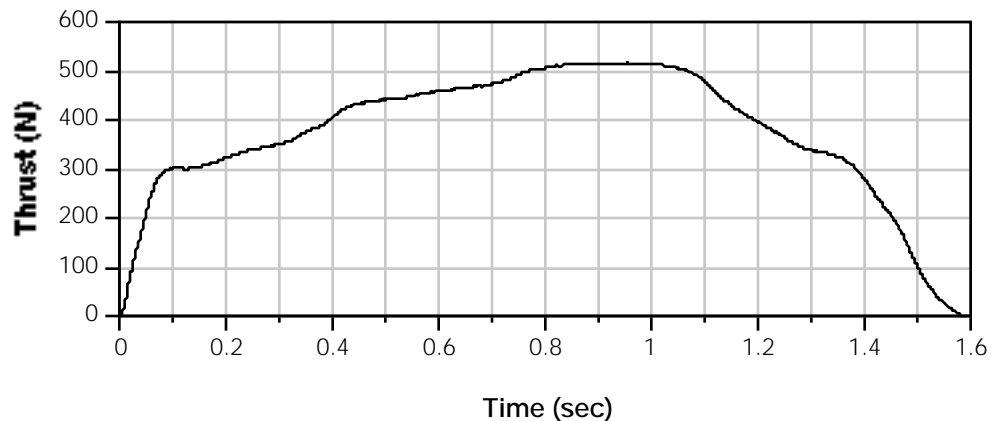
Date Tested: 06-March-30

Total Impulse: 595.54 newton-seconds (0.18
Peak Thrust: 516.53 newtons (19.48
Burn Time: 1.59 seconds (0.02
Average Thrust: 375.70 newtons

Mass After Firing: 393.6 grams

Delay Time	Average Measured Delay	Initial Mass
20	20.53	733.8 g

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 38- 640 motor and Animal Motor Works I375GG-20 reload kit. No substitutions allowed.


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; ANIMAL MOTOR WORKS I375GG 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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Time (sec)	Thrust (N)
0.026	102.937
0.052	205.874
0.075	278.683
0.098	303.790
0.130	302.600
0.181	318.854
0.262	346.471
0.354	379.110
0.403	409.237
0.431	429.323
0.490	439.365
0.592	459.451
0.684	466.983
0.737	487.068
0.781	504.643
0.850	514.685
0.936	516.530
1.028	512.175
1.079	499.621
1.108	477.025
1.154	429.323
1.253	364.046
1.288	348.982
1.336	333.918
1.373	316.343
1.419	256.087
1.467	180.767
1.494	120.511
1.524	57.745
1.554	22.595
1.590	0.000

