

ANIMAL MOTOR WORKS N4000

CERTIFIED VALUES

Total Impulse: 16,460.94 newton-seconds
Delays: P

Propellant Type: Composite / Blue Baboon
Propellant Mass: 7,565.7 grams

Casing Dimensions: 98 mm × 1213 mm

Certification Date: 06-May-1

Certification Type: High Power Rocket

STATIC TEST DATA

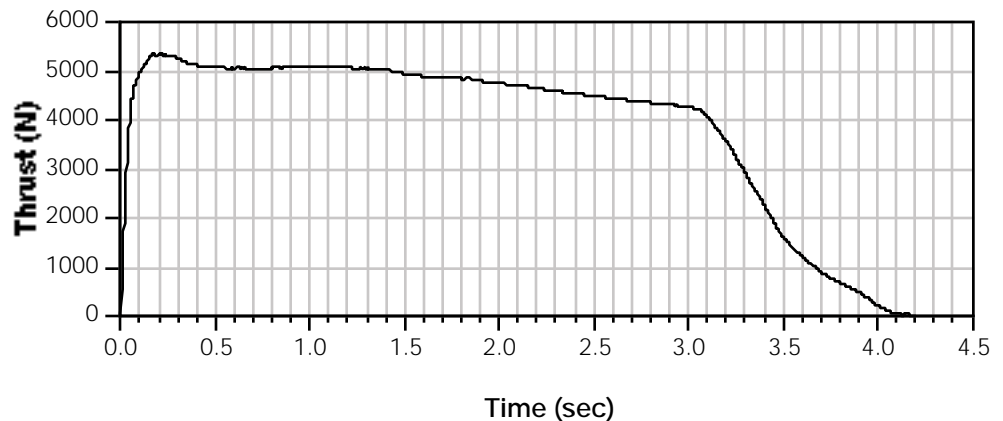
Date Tested: 06-March-30

Total Impulse: 16,460.94 newton-seconds (96.96)
Peak Thrust: 5354.56 newtons (15.22)
Burn Time: 4.20 seconds (0.03)
Average Thrust: 3914.24 newtons

Mass After Firing: 6102.7 grams

Delay Time	Average Measured Delay	Initial Mass
P	NONE	13,668.3 g

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 98- 17500 motor and Animal Motor Works N4000BB-P reload kit. No substitutions allowed.


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; ANIMAL MOTOR WORKS N4000BB 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)
N4000	98
1213	P
7.566	13.668
AMW	
0.030	2967.465
0.066	4347.426
0.100	4893.224
0.148	5179.593
0.216	5354.560
0.324	5231.479
0.440	5075.822
0.643	5075.822
0.853	5101.765
1.205	5049.879
1.537	4946.107
1.923	4815.395
2.330	4554.969
2.689	4425.254
2.933	4320.485
3.021	4294.542
3.088	4190.771
3.162	3800.630
3.277	3097.379
3.371	2514.440
3.459	1925.759
3.506	1578.504
3.620	1226.956
3.762	754.837
3.904	494.610
3.958	390.440
4.006	234.284
4.053	130.113
4.200	0.000

