

AMW M2500

CERTIFIED VALUES

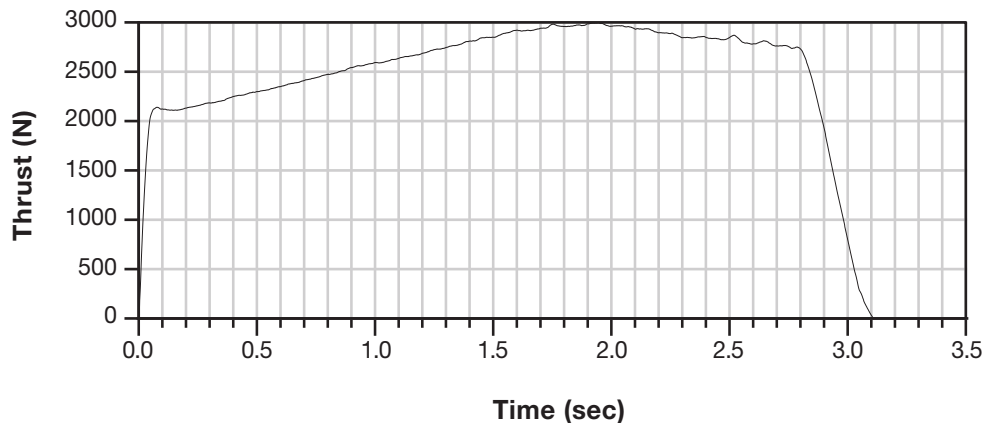
Total Impulse: 7800 newton-seconds
Delays: Plugged
Propellant Type: Composite / Green Gorilla
Propellant Mass: 4248.0 grams
Casing Dimensions: 75 mm x 1039 mm
Certification Date: 2002–November–4
Certification Type: High Power Rocket

STATIC TEST DATA

Date Tested: 2002–November–3
Total Impulse: 7784.40 newton-seconds (σ 3.21)
Peak Thrust: 2995.51 newtons (σ 125.24)
Burn Time: 3.11 seconds (σ 0.04)
Average Thrust: 2501.38 newtons
Mass After Firing: 3061.4 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	7551.5 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 75-7600 casing and Animal Motor Works M2500GG-P-SM reload kit. No substitutions allowed. Produces 10 to 15 seconds of tracking smoke after burnout.

; Animal Motor Works M2500 RASP.ENG file made from NAR data
; File produced DEC 25, 2002
; 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.

M2500	75	1039	P	4.248	7.5515	AW
0.026	1288.791					
0.053	2021.398					
0.079	2140.011					
0.123	2105.125					
0.207	2117.086					
0.540	2309.458					
0.971	2560.637					
1.265	2727.094					
1.480	2836.736					
1.678	2920.462					
1.757	2980.267					
1.946	2995.51					
2.047	2959.335					
2.240	2889.563					
2.310	2854.677					
2.486	2820.788					
2.526	2880.593					
2.592	2773.941					
2.653	2821.785					
2.706	2752.012					
2.758	2752.012					
2.807	2763.973					
2.842	2504.82					
2.886	2115.092					
2.930	1630.674					
2.987	1051.565					
3.040	437.571					
3.057	284.072					
3.079	142.434					
3.097	83.497					
3.110	0					

