

AMW K475

CERTIFIED VALUES

Total Impulse: 1400 newton-seconds
Delays: Plugged

Propellant Type: Composite / White Wolf
Propellant Mass: 728.6 grams

Casing Dimensions: 54 mm x 403 mm

Certification Date: 2003–January–20

Certification Type: High Power Rocket

STATIC TEST DATA

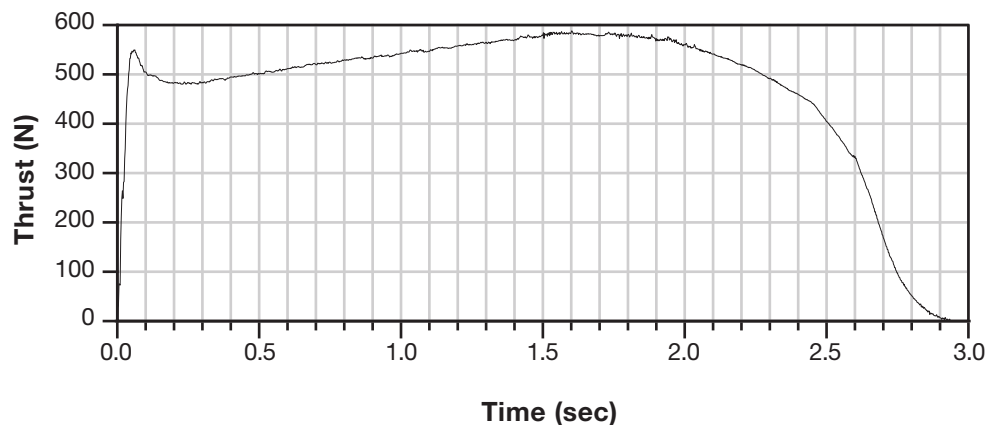
Date Tested: 2003–January–19

Total Impulse: 1393.99 newton-seconds (σ 2.73)
Peak Thrust: 588.29 newtons (σ 13.40)
Burn Time: 2.94 seconds (σ 0.03)
Average Thrust: 474.15 newtons

Mass After Firing: 759.5 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	1492.5 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 54-1400 casing and Animal Motor Works K475WW-P reload kit. No substitutions allowed.

; Animal Motor Works K475 RASP.ENG file made from NAR data
; File produced Feb 22, 2003
; 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.

K475	54	403	P	0.7286	1.4925	AW
0.022	127.831					
0.041	386.016					
0.063	548.326					
0.096	521.308					
0.134	499.129					
0.180	486.830					
0.285	486.830					
0.478	501.649					
0.731	523.727					
1.096	553.266					
1.433	577.962					
1.601	588.290					
1.756	582.704					
1.895	580.284					
1.958	575.344					
2.063	550.746					
2.209	518.788					
2.344	477.051					
2.495	417.974					
2.561	354.058					
2.582	334.399					
2.599	331.980					
2.620	297.501					
2.670	226.226					
2.707	157.370					
2.740	98.353					
2.799	49.176					
2.853	17.208					
2.940	0.000					

