

# AMW K530

## CERTIFIED VALUES

**Total Impulse:** 1410 newton-seconds  
**Delays:** Plugged

**Propellant Type:** Composite / Green Gorilla  
**Propellant Mass:** 796.7 grams

**Casing Dimensions:** 54 mm x 403 mm

**Certification Date:** 2003–January–20

**Certification Type:** High Power Rocket

## STATIC TEST DATA

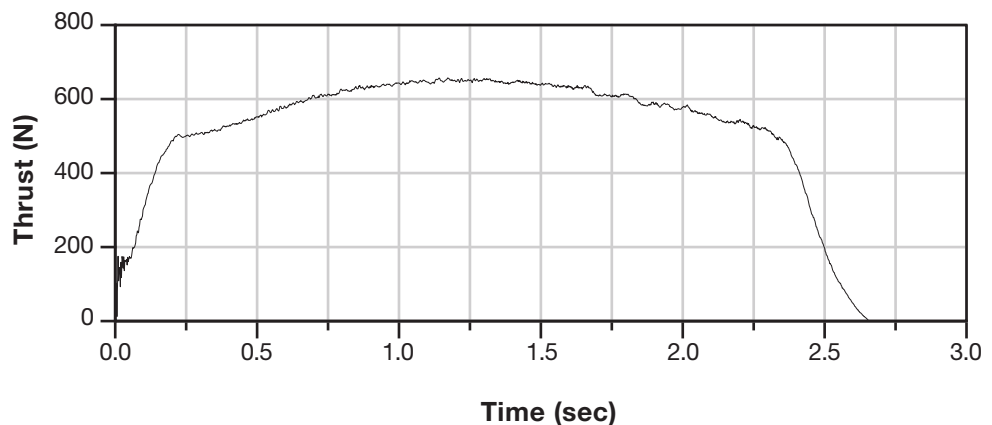
**Date Tested:** 2003–January–19

**Total Impulse:** 1401.58 newton-seconds ( $\sigma$  6.25)  
**Peak Thrust:** 657.23 newtons ( $\sigma$  19.16)  
**Burn Time:** 2.66 seconds ( $\sigma$  0.06)  
**Average Thrust:** 526.91 newtons

**Mass After Firing:** 830.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	1616.0 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

Consists of the Animal Motor Works 54-1400 casing and Animal Motor Works K530WGG-P reload kit. No substitutions allowed.

```
; Animal Motor Works K530 RASP.ENG file made from NAR data
; File produced Feb 25, 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.
```

```
K350 54 403 P 0.7967 1.6160 AW
0.013 129.764
0.054 171.852
0.096 284.122
0.138 392.892
0.171 455.975
0.217 501.662
0.238 498.063
0.326 508.660
0.542 564.745
0.755 613.831
1.010 645.423
1.170 657.230
1.273 648.922
1.510 638.425
1.656 634.925
1.702 606.833
1.803 606.833
1.857 585.839
1.936 589.338
1.974 575.242
2.015 589.338
2.040 564.745
2.132 536.652
2.207 540.251
2.291 522.656
2.357 487.566
2.420 375.297
2.478 242.033
2.529 140.361
2.583 66.651
2.660 0.000
```

