

# AMW J370

## CERTIFIED VALUES

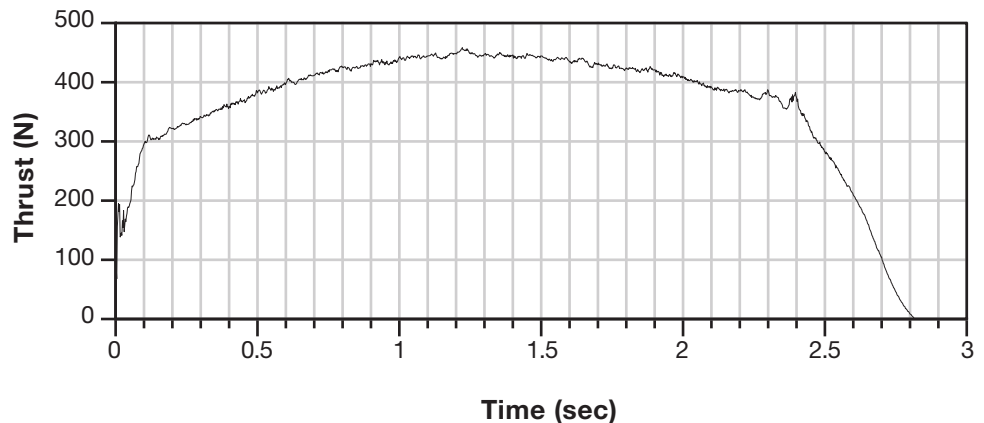
**Total Impulse:** 1040 newton-seconds  
**Delays:** Plugged  
**Propellant Type:** Composite / Green Gorilla  
**Propellant Mass:** 598.3 grams  
**Casing Dimensions:** 54 mm x 326 mm  
**Certification Date:** 2003-Janurary-20  
**Certification Type:** High Power Rocket

## STATIC TEST DATA

**Date Tested:** 2003-Janurary-19  
**Total Impulse:** 1030.90 newton-seconds ( $\sigma$  7.18)  
**Peak Thrust:** 458.46 newtons ( $\sigma$  15.36)  
**Burn Time:** 2.82 seconds ( $\sigma$  0.00)  
**Average Thrust:** 365.57 newtons  
**Mass After Firing:** 660.0 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	1249.1 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

Consists of the Animal Motor Works 54-1050 casing and Animal Motor Works J370GG-P reload kit. No substitutions allowed.

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; Animal Motor Works J370 RASP.ENG file made from NAR data
; File produced FEB 20, 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.

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```

J370 54 326 P 0.5983 1.2491 AW
0.008 185.496
0.024 149.516
0.063 225.273
0.087 272.647
0.122 304.829
0.158 304.829
0.273 335.212
0.431 363.796
0.573 390.381
0.707 413.168
0.877 428.459
1.019 441.852
1.126 441.852
1.224 458.46
1.284 443.951
1.386 440.153
1.572 438.454
1.651 438.554
1.813 417.765
2.022 404.673
2.141 385.883
2.212 385.883
2.255 374.59
2.299 387.882
2.362 357.599
2.401 384.184
2.421 348.204
2.457 316.122
2.559 251.758
2.697 115.635
2.753 45.624
2.820 0

```

