

# AEROTECH F16-RCJ

## CERTIFIED VALUES

Total Impulse: 80 newton-seconds  
Delays: None

Propellant Type: Composite  
Propellant Mass: 62.5 grams

Casing Dimensions: 32 mm × 107 mm

Certification Date: 94-April-17  
Contest Use Date: 94-July-16

Certification Type: Model Rocket

## STATIC TEST DATA

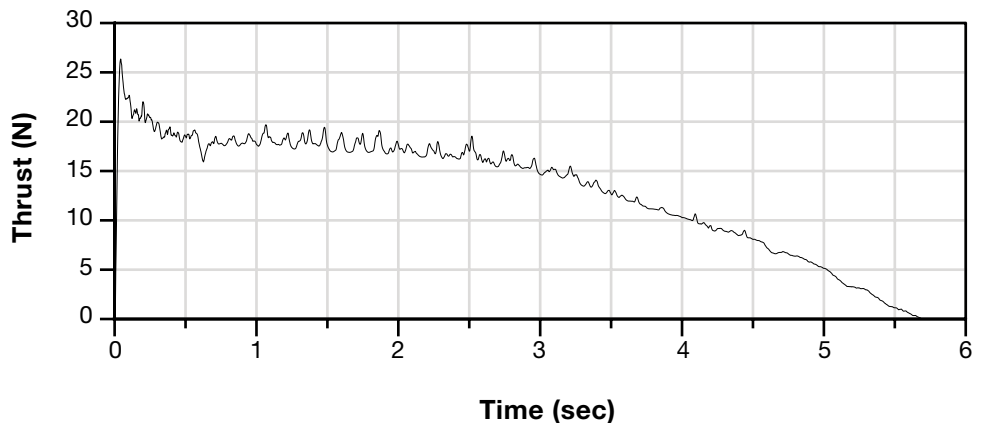
Date Tested: 94-April-16

Total Impulse: 75.48 newton-seconds ( $\sigma$  3.94)  
Peak Thrust: 26.35 newtons ( $\sigma$  1.73)  
Burn Time: 5.69 seconds ( $\sigma$  0.23)  
Average Thrust: 13.27 newtons

Mass After Firing: 81.9 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
None	None	140.4g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

Uses AeroTech RMS-RC 32/60-100 Reload System and AeroTech F16-RCJ Reload Kit. No substitutions allowed.

; Aerotech F16RCJ RASP.ENG file made from NAR published data  
; File produced July 4, 2000  
; 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.

```
F16RCJ 32 107 NONE .0625 .1404 A
0.046 26.350
0.116 22.388
0.139 21.374
0.185 21.886
0.220 20.540
0.301 19.696
0.498 18.350
0.579 19.194
0.637 16.492
0.718 18.350
0.834 18.350
0.950 18.350
1.054 19.194
1.147 17.848
1.181 18.853
1.263 17.336
1.436 18.009
1.633 17.165
1.784 17.336
1.865 18.682
1.934 16.834
1.981 17.336
2.178 16.332
2.375 16.332
2.502 18.180
2.664 15.659
2.896 15.488
3.290 13.800
3.718 11.611
4.181 9.426
4.888 5.891
5.690 0.000
```

