

AEROTECH F12

CERTIFIED VALUES

Total Impulse: 45 newton-seconds
Delays: 2, 5 seconds

Propellant Type: Composite
Propellant Mass: 30.3 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 94-April-10
Contest Use Date: 94-July-9

Certification Type: Model Rocket

STATIC TEST DATA

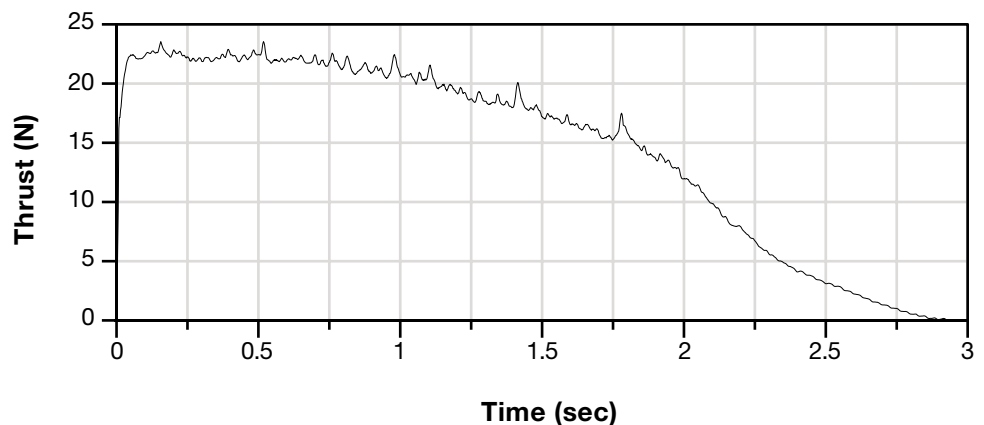
Date Tested: 94-April-9

Total Impulse: 43.20 newton-seconds (σ 1.14)
Peak Thrust: 23.54 newtons (σ 1.32)
Burn Time: 2.93 seconds (σ 0.13)
Average Thrust: 14.74 newtons

Mass After Firing: 33.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
2	1.33	68.6 g	511 g
5	4.59	65.8 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-24/40 Reload System and AeroTech F12 Reload Kit. No substitutions allowed.

; Aerotech F12 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.

F12	24	70	2-5	.0303	.0667	A
0.037	20.894					
0.054	22.152					
0.101	22.152					
0.148	22.571					
0.165	23.409					
0.200	22.421					
0.281	22.142					
0.369	22.132					
0.474	22.271					
0.526	23.540					
0.549	21.982					
0.637	22.122					
0.724	21.842					
0.800	21.413					
0.823	22.251					
0.846	20.714					
0.881	21.553					
0.945	21.123					
1.021	20.704					
1.114	20.554					
1.213	19.296					
1.382	18.298					
1.481	18.019					
1.737	15.343					
1.790	17.300					
1.883	13.936					
2.051	11.260					
2.220	7.468					
2.447	3.671					
2.709	1.135					
2.930	0.000					

