

AEROTECH F32

CERTIFIED VALUES

Total Impulse: 80 newton-seconds
Delays: 5, 10, 15 seconds

Propellant Type: Composite
Propellant Mass: 37.7 grams

Casing Dimensions: 24 mm × 124 mm

Certification Date: 88-November-28
Contest Use Date: 89-February-28

Certification Type: Model Rocket

STATIC TEST DATA

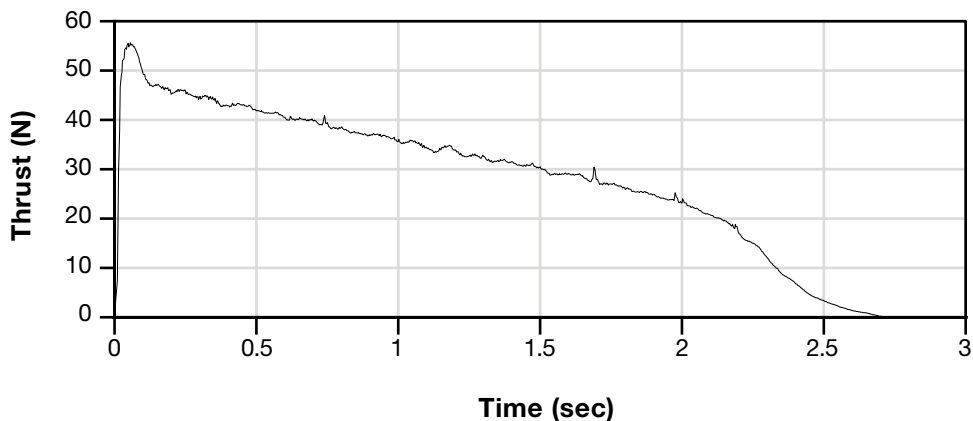
Date Tested: 95-September-3

Total Impulse: 79.20 newton-seconds (σ 0.40)
Peak Thrust: 55.64 newtons (σ 1.16)
Burn Time: 2.72 seconds (σ 0.08)
Average Thrust: 29.12 newtons

Mass After Firing: 35.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
5	5.60	81.6 g	680 g
10	9.48	81.0 g	454 g
15	16.45	81.7 g	284 g

TYPICAL THRUST-TIME CURVE



REMARKS



; Aerotech F32 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.

F32	24	124	5-10-15	.0377	.0814	A
0.025	46.699					
0.031	51.846					
0.061	55.640					
0.085	52.868					
0.126	47.370					
0.245	45.637					
0.340	44.946					
0.394	42.873					
0.447	42.873					
0.572	41.140					
0.720	39.408					
0.744	40.780					
0.786	38.026					
1.041	35.592					
1.136	33.179					
1.177	34.541					
1.225	32.818					
1.379	31.436					
1.474	30.394					
1.635	28.311					
1.676	27.280					
1.694	29.683					
1.712	26.929					
1.854	25.537					
1.943	23.815					
2.092	21.051					
2.187	18.287					
2.276	13.820					
2.382	7.281					
2.525	2.457					
2.720	0.000					

