

AEROTECH E15

CERTIFIED VALUES

Total Impulse: 40 newton-seconds
Delays: 4, 7 seconds

Propellant Type: Composite
Propellant Mass: 20.1 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 88-April-18
Contest Use Date: 88-July-17

Certification Type: Model Rocket

STATIC TEST DATA

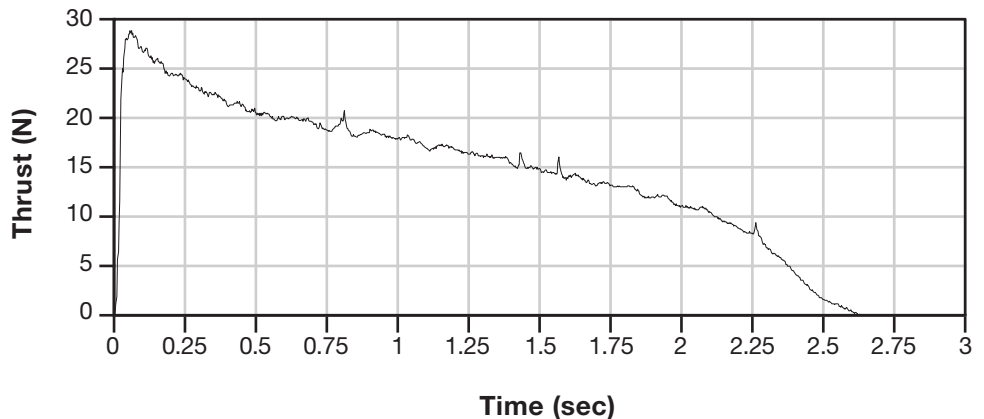
Date Tested: 95-September-3

Total Impulse: 39.76 newton-seconds (σ 0.23)
Peak Thrust: 28.84 newtons (σ 2.11)
Burn Time: 2.64 seconds (σ 0.06)
Average Thrust: 15.06 newtons

Mass After Firing: 25.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.56	50.2 g	454 g
7	7.97	50.0 g	269 g

TYPICAL THRUST-TIME CURVE



REMARKS

; Aerotech E15 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.

E15	24	70	4-7	.0201	.0501	A
0.020	23.330					
0.036	27.318					
0.058	28.840					
0.079	27.171					
0.139	25.638					
0.183	24.263					
0.237	24.106					
0.297	22.426					
0.373	21.964					
0.400	20.894					
0.443	21.355					
0.487	20.442					
0.617	19.833					
0.742	18.457					
0.812	20.000					
0.850	18.006					
0.899	18.467					
1.035	17.711					
1.100	16.945					
1.160	16.945					
1.377	15.736					
1.426	14.656					
1.436	16.198					
1.463	14.813					
1.550	14.361					
1.572	15.432					
1.610	13.752					
1.827	12.839					
2.126	10.098					
2.337	6.116					
2.538	1.369					
2.640	0.000					

