AEROTECH E30

CERTIFIED VALUES

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

Propellant Type: Composite
Propellant Mass: 19.3 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

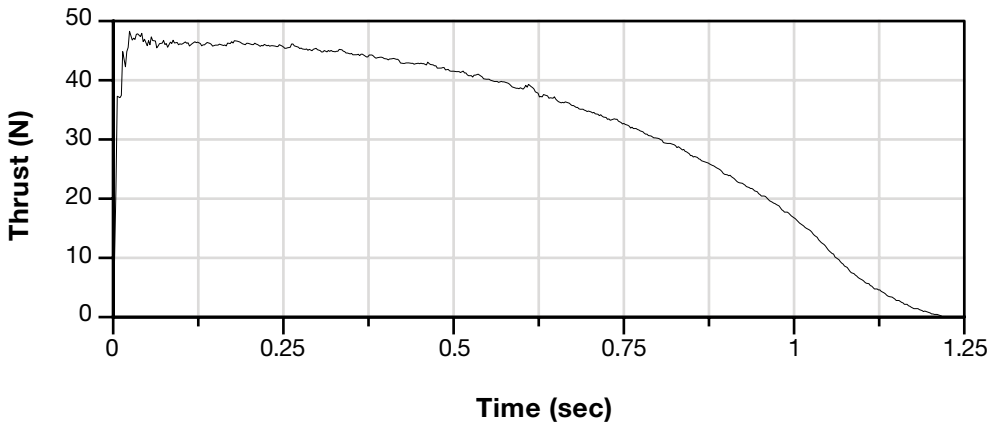
Date Tested: 95-September-3

Total Impulse: 39.51 newton-seconds (σ 0.29)
Peak Thrust: 48.27 newtons (σ 0.81)
Burn Time: 1.22 seconds (σ 0.01)
Average Thrust: 32.38 newtons

Mass After Firing: 19.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.25	43.4 g	454 g
7	6.56	43.2 g	301 g

TYPICAL THRUST-TIME CURVE



REMARKS

Updated: 8/96

; Aerotech E30 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.
E30 24 70 4-7 .0198 .0433 A
0.013 38.8470
0.020 45.6210
0.041 48.2700
0.059 46.5020
0.110 46.5020
0.166 45.9120
0.184 46.7920
0.217 45.9120
0.265 45.9120
0.319 45.0310
0.383 44.1500
0.482 42.0890
0.594 38.8470
0.615 39.4370
0.628 37.3760
0.684 35.3140
0.742 33.2630
0.804 30.0210
0.880 25.6070
0.962 20.0140
1.038 12.9490
1.089 7.3580
1.151 3.2370
1.186 1.1760
1.220 0.0000