

# AEROTECH E30

## CERTIFIED VALUES

**Total Impulse:** 33.56 newton-seconds  
**Delays:** 4, 7

**Propellant Type:** Composite  
**Propellant Mass:** 17.8 grams

**Casing Dimensions:** 24 mm × 70 mm

**Certification Date:** 10-August-1

**Certification Type:** Model Rocket

## STATIC TEST DATA

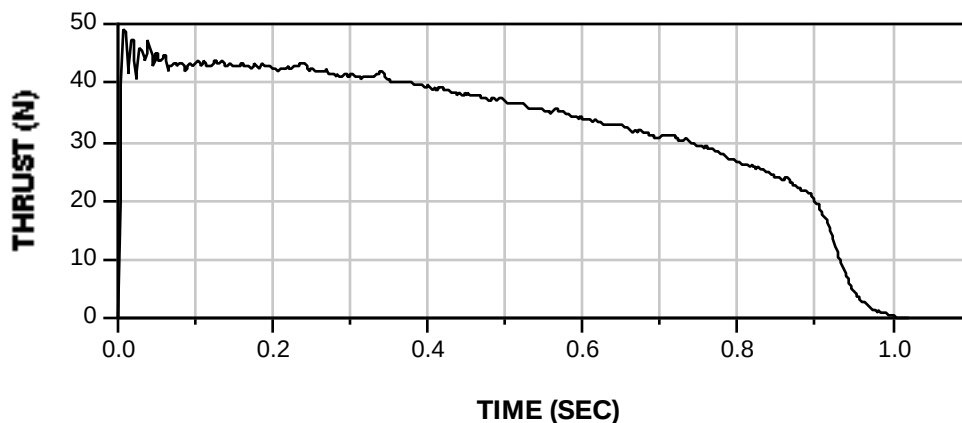
**Date Tested:** 10-July-3

**Total Impulse:** 33.56 newton-seconds (s 0.31)  
**Peak Thrust:** 49.30 newtons (s 2.56)  
**Burn Time:** 1.02 seconds (s 0.05)  
**Average Thrust:** 32.95 newtons

**Mass After Firing:** 25.0 grams

| Delay Time | Average<br>Measured Delay | Initial Mass |
|------------|---------------------------|--------------|
| 4          | 3.71                      | 47.0 g       |
| 7          | 7.17                      | 47.0 g       |

## TYPICAL THRUST-TIME CURVE



## REMARKS

New molded case

[illegible]

```
; Aerotech E30 RASP.ENG file made from NAR published data
; File produced Sept 30, 2010
; 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 .0178 .047 A
```

```
0.006 49.3000
0.030 45.7010
0.038 47.1810
0.050 45.1800
0.062 43.7010
0.112 43.4020
0.138 42.8170
0.206 42.0730
0.238 43.3680
0.282 41.5750
0.324 41.0860
0.342 41.7330
0.362 40.1680
0.436 38.1580
0.524 36.3980
0.650 32.9720
0.712 31.0500
0.836 25.0770
0.874 22.4750
0.888 21.5080
0.900 20.0080
0.912 17.1760
0.924 13.3000
0.942 6.6500
0.962 2.7550
0.974 1.6370
0.988 0.7810
1.000 0.4290
1.010 0.1410
1.020 0.0000
```

