

FSI D20

CERTIFIED VALUES

Total Impulse: 13.5 newton-seconds
Delays: 0, 3, 5, 7, 12 seconds

Propellant Type: Black Powder
Propellant Mass: 20.0 grams

Casing Dimensions: 21 mm x 95 mm

Certification Date: Continuing
Contest Use Date: Continuing

Certification Type: Model Rocket

STATIC TEST DATA

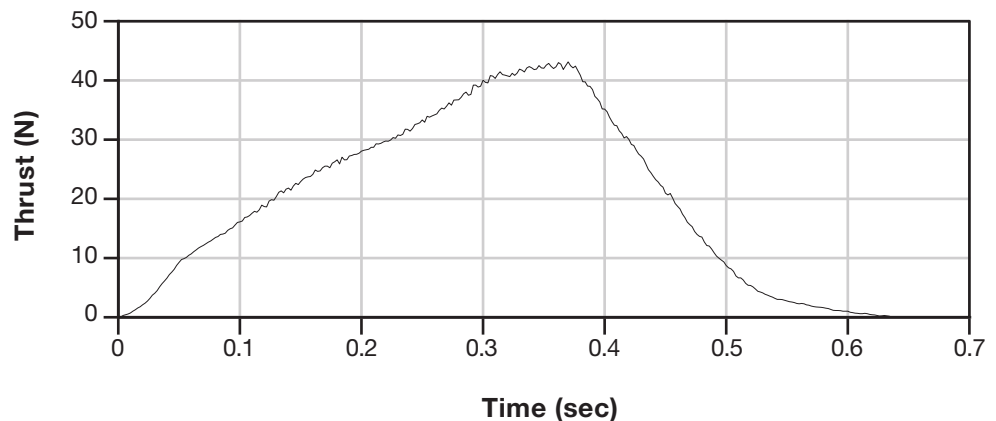
Date Tested: 95-April-22

Total Impulse: 13.01 newton-seconds (σ 0.35)
Peak Thrust: 43.13 newtons (σ 3.86)
Burn Time: 0.64 seconds (σ 0.05)
Average Thrust: 20.33 newtons

Mass After Firing: 25.1 grams

| Delay Time | Average Measured Delay | Initial Mass | Mfg Recommended Max Liftoff Weight |
|------------|------------------------|--------------|------------------------------------|
| 0 | 0.00 | 40.7 g | 175 g |
| 3 | 3.79 | 40.5 g | 175 g |
| 5 | 4.89 | 41.3 g | 175 g |
| 7 | 7.46 | 42.7 g | 175 g |
| 12 | 12.19 | 44.5 g | 175 g |

TYPICAL THRUST-TIME CURVE



REMARKS