

AEROTECH I300

CERTIFIED VALUES

Total Impulse: 440 newton-seconds
Delays: 6, 10, 14 seconds

Propellant Type: Composite
Propellant Mass: 221.6 grams

Casing Dimensions: 38 mm × 250 mm

Certification Date: 96-May-6

Certification Type: High Power Rocket

STATIC TEST DATA

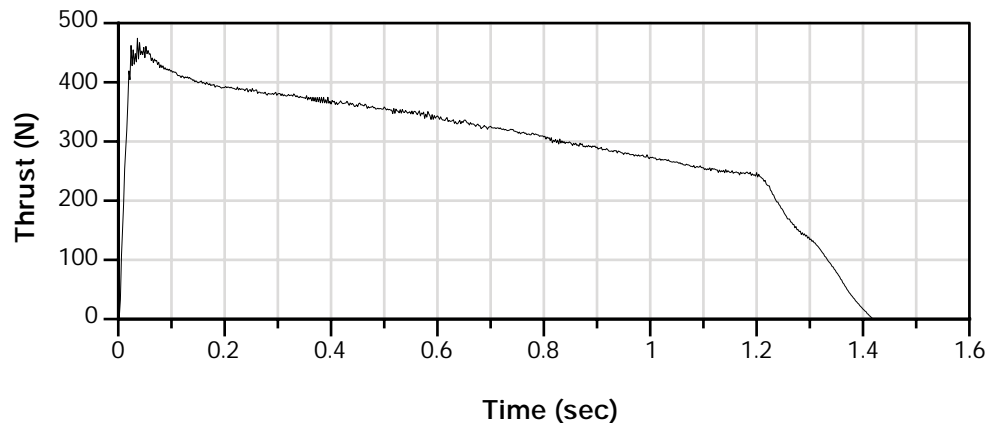
Date Tested: 96-May-5

Total Impulse: 426.51 newton-seconds (σ 2.41)
Peak Thrust: 474.43 newtons (σ 21.08)
Burn Time: 1.42 seconds (σ 0.02)
Average Thrust: 300.36 newtons

Mass After Firing: 214.1 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
6	6.68	442.7 g	
10	10.76	444.6 g	
14	14.41	446.2 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-38/440 Reload System and AeroTech I300 Reload Kit. No substitutions allowed.

; Aerotech I300 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.

I300	38	250	6-10-14	.2216	.4445	A
0.012	257.509					
0.018	389.185					
0.024	460.765					
0.037	474.430					
0.063	437.895					
0.113	409.382					
0.231	386.710					
0.380	366.909					
0.507	355.722					
0.669	327.406					
0.822	299.091					
0.958	279.290					
1.120	253.846					
1.177	245.332					
1.199	245.332					
1.219	228.204					
1.247	188.206					
1.276	151.080					
1.311	128.210					
1.333	99.697					
1.359	68.243					
1.384	33.948					
1.420	0.000					

