

AEROTECH I65

CERTIFIED VALUES

Total Impulse: 640 newton-seconds
Delays: Plugged

Propellant Type: Composite
Propellant Mass: 369.7 grams

Casing Dimensions: 54 mm x 235 mm

Certification Date: 01-June-4

Certification Type: High Power Rocket

STATIC TEST DATA

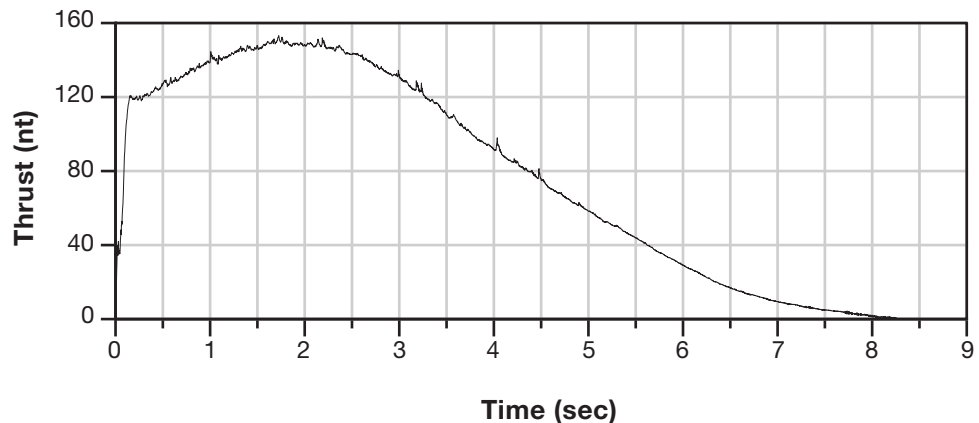
Date Tested: 01-June-3

Total Impulse: 630.50 newton-seconds (σ 1.94)
Peak Thrust: 150.07 newtons (σ 8.04)
Burn Time: 8.26 seconds (σ 0.75)
Average Thrust: 76.33 newtons

Mass After Firing: 363.7 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	776.1 g	

TYPICAL THRUST-TIME CURVE



REMARKS

; AEROTECH I65 RASP.ENG file made from NAR published data
; File produced OCT 3, 2002
; 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.

I65	54	235	P-	.3697	.7761	A
0.086	55.739					
0.099	90.267					
0.148	113.911					
0.296	113.911					
0.542	121.767					
0.579	123.588					
0.825	128.953					
0.973	132.593					
1.022	138.725					
1.071	132.593					
1.330	138.629					
1.502	139.875					
1.724	150.070					
2.019	141.886					
2.733	131.923					
3.140	119.181					
3.213	122.151					
3.275	114.295					
3.570	103.948					
3.977	88.791					
4.051	93.036					
4.100	84.547					
4.432	74.229					
4.912	58.440					
5.725	34.758					
6.119	24.430					
6.611	13.489					
7.166	6.787					
7.596	3.729					
7.978	1.886					
8.114	0.665					
8.260	0.000					

