

QUEST D8

CERTIFIED VALUES

Total Impulse: 18.59 newton-seconds
Delays: 0, 3, 5

Propellant Type: Black Powder
Propellant Mass: 22.0 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 09-Dec-14

Certification Type: Model Rocket

STATIC TEST DATA

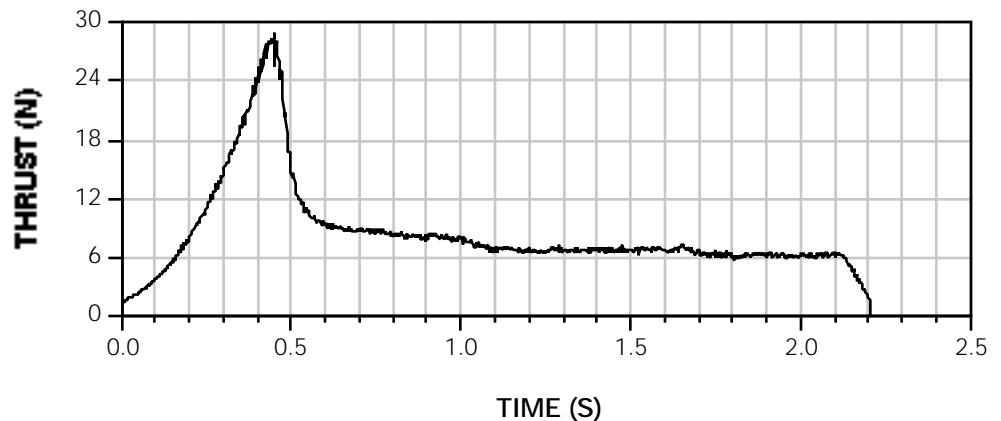
Date Tested: 09-Dec-13

Total Impulse: 18.59 newton-seconds (0.67
Peak Thrust: 28.88 newtons (1.13
Burn Time: 2.20 seconds (0.15
Average Thrust: 8.44 newtons

Mass After Firing: 17.8 grams

Delay Time	Average Measured Delay	Initial Mass
0	0.00	45.6 g
3	2.77	44.1 g
5	4.41	46.7 g

TYPICAL THRUST-TIME CURVE



REMARKS

; QUEST D8 RASP.ENG FILE

; 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.

D8	24	70	0-3-5	0.0220	0.454	QUEST
0.002	1.014					
0.010	1.565					
0.130	5.178					
0.217	8.911					
0.298	14.812					
0.351	20.231					
0.414	25.289					
0.442	28.882					
0.470	23.844					
0.487	17.461					
0.508	13.367					
0.537	10.958					
0.600	9.152					
0.673	8.791					
0.828	8.309					
0.933	8.068					
1.136	7.105					
1.350	6.743					
1.480	6.623					
1.602	6.502					
1.648	7.105					
1.683	6.382					
1.743	6.262					
1.865	6.141					
1.974	6.141					
2.104	6.262					
2.132	5.419					
2.170	3.492					
2.191	1.926					
2.200	0.000					

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