

NCR F62

CERTIFIED VALUES

Total Impulse: 80 newton-seconds
Delays: 4, 6 seconds

Propellant Type: Composite
Propellant Mass: 51.5 grams

Casing Dimensions: 29 mm × 103 mm

Certification Date: 97-July-20
Contest Use Date: 97-September-18

Certification Type: Model Rocket

STATIC TEST DATA

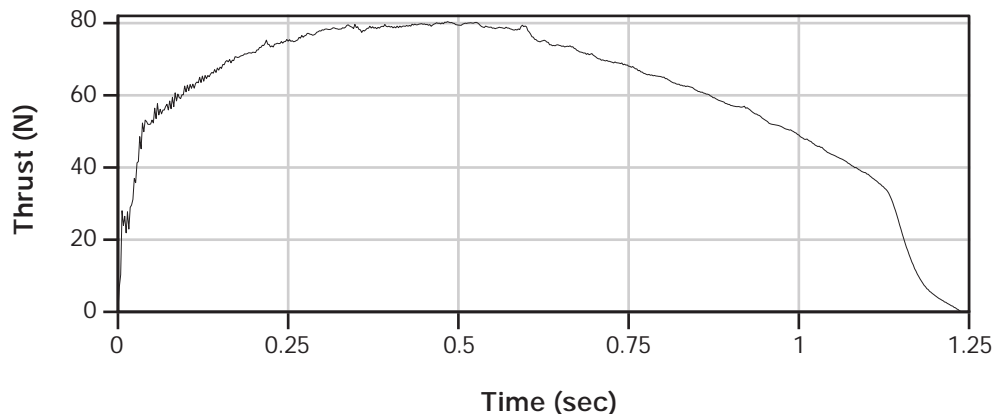
Date Tested: 96-June-2

Total Impulse: 74.69 newton-seconds (σ 0.60)
Peak Thrust: 80.41 newtons (σ 2.13)
Burn Time: 1.24 seconds (σ 0.02)
Average Thrust: 60.23 newtons

Mass After Firing: 55.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	3.72	111.2 g	
6	5.45	112.3 g	
9	7.96	110.5 g	

TYPICAL THRUST-TIME CURVE



REMARKS

The 9 second delay was certified 98-August-1.

; NCR F62 RASP.ENG file made from NAR published data
 ; File produced December 7, 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.

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F62 29 103 4-6 .0515 .1113 NCR
0.006 27.705
0.018 23.181
0.028 36.176
0.040 51.435
0.064 57.085
0.127 64.969
0.179 70.041
0.206 71.716
0.221 73.978
0.227 72.842
0.269 75.652
0.323 78.453
0.353 79.001
0.387 78.991
0.429 78.971
0.498 80.410
0.546 78.353
0.591 77.765
0.606 78.323
0.618 74.357
0.667 73.779
0.757 68.078
0.868 59.547
0.998 48.744
1.100 37.950
1.130 33.416
1.142 27.755
1.154 19.832
1.169 11.351
1.187 6.249
1.211 2.846
1.240 0.000
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