

# KOSDON G40

## CERTIFIED VALUES

Total Impulse: 120 newton-seconds  
Delays: P seconds

Propellant Type: Composite  
Propellant Mass: 48.4 grams

Casing Dimensions: 29 mm × 206 mm

Certification Date: 96-June-30

Certification Type: High Power Rocket

## STATIC TEST DATA

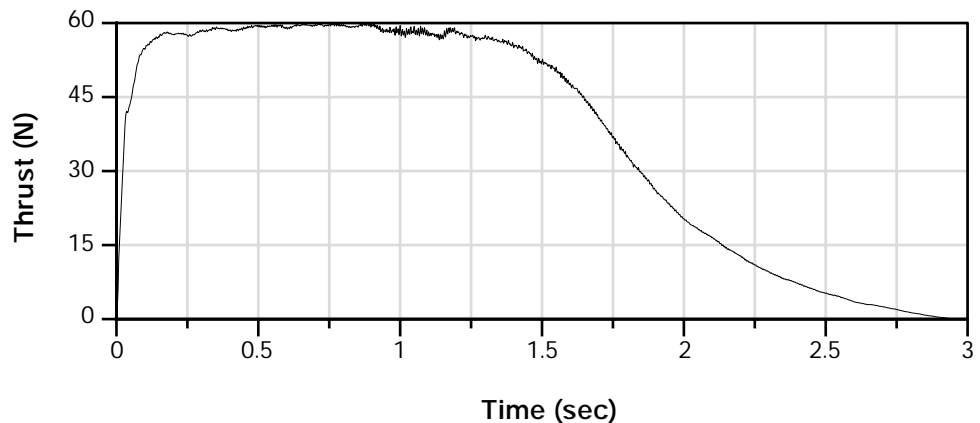
Date Tested: 96-March-17

Total Impulse: 110.56 newton-seconds ( $\sigma$  0.30)  
Peak Thrust: 59.54 newtons ( $\sigma$  2.58)  
Burn Time: 2.96 seconds ( $\sigma$  0.10)  
Average Thrust: 37.35 newtons

Mass After Firing: 125.6 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	180.0 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

This is a reloadable motor, certified only with the manufacturer specified casing and reload kit. No substitutions allowed.

; Kosdon G40 RASP.ENG file made from NAR published data  
 ; File produced November 1, 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.

```

G40 29 206 P .0484 .1800 K
0.019 39.377
0.033 42.162
0.061 45.354
0.074 53.707
0.136 56.510
0.213 57.704
0.289 57.714
0.406 58.122
0.503 59.197
0.607 58.549
0.718 58.828
0.891 59.540
0.988 58.201
1.141 57.028
1.175 58.231
1.252 57.048
1.342 56.262
1.439 54.283
1.536 51.111
1.654 44.369
1.779 34.445
1.918 24.919
2.099 16.586
2.279 10.242
2.508 5.105
2.730 2.350
2.960 0.000
  
```

