

KOSDON I130

CERTIFIED VALUES

Total Impulse: 550 newton-seconds
Delays: 5 seconds

Propellant Type: Composite
Propellant Mass: 266.0 grams

Casing Dimensions: 38 mm × 370 mm

Certification Date: 96-June-30

Certification Type: High Power Rocket

STATIC TEST DATA

Date Tested: 96-March-17

Total Impulse: 546.73 newton-seconds (σ 6.80)

Peak Thrust: 196.26 newtons (σ 3.11)

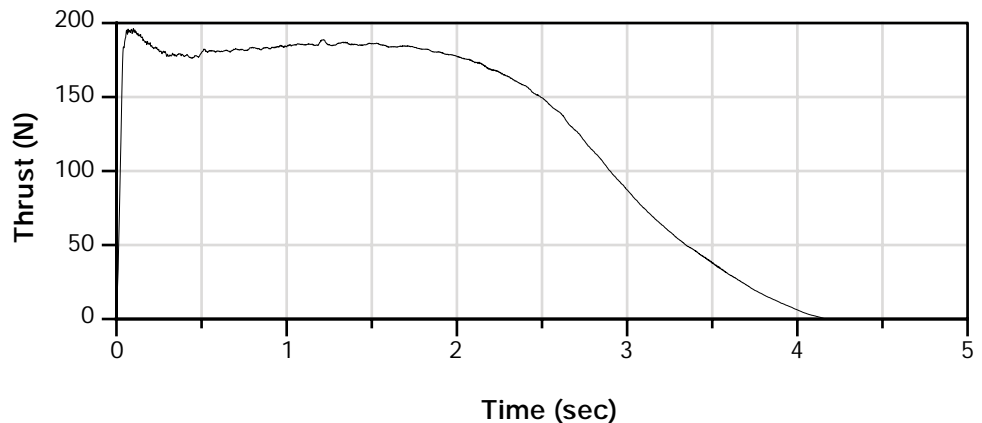
Burn Time: 4.17 seconds (σ 0.10)

Average Thrust: 131.11 newtons

Mass After Firing: 412.0 grams

| Delay Time | Average Measured Delay | Initial Mass | Mfg Recommended Max Liftoff Weight |
|------------|------------------------|--------------|------------------------------------|
| 5 | 5.10 | 684.0 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 I130 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.

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I130 38 370 5 .2660 .6840 K
0.022 121.581
0.093 196.260
0.190 185.257
0.347 176.999
0.469 175.606
0.541 181.178
0.662 181.178
0.844 181.277
1.001 184.063
1.195 185.456
1.364 185.555
1.582 184.262
1.727 184.262
1.873 180.183
2.042 176.103
2.248 167.845
2.406 158.194
2.576 141.679
2.758 119.591
2.952 94.777
3.158 68.581
3.365 50.672
3.595 31.390
3.813 17.640
3.947 10.765
4.170 0.000
  
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