

KOSDON I145

CERTIFIED VALUES

Total Impulse: 360 newton-seconds
Delays: 7 seconds

Propellant Type: Composite
Propellant Mass: 182.7 grams

Casing Dimensions: 38 mm × 258 mm

Certification Date: 96-June-30

Certification Type: High Power Rocket

STATIC TEST DATA

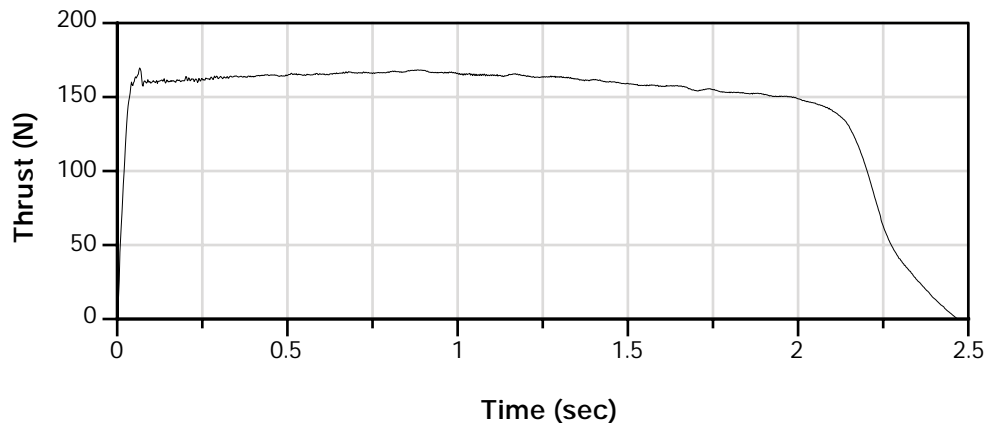
Date Tested: 96-March-17

Total Impulse: 357.47 newton-seconds (σ 0.41)
Peak Thrust: 169.65 newtons (σ 6.16)
Burn Time: 2.47 seconds (σ 0.04)
Average Thrust: 144.72 newtons

Mass After Firing: 298.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
7	6.80	487.0 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 I145 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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I145 38 258 7 .1827 .4870 K
0.023 113.961
0.040 157.854
0.058 164.722
0.066 169.650
0.076 159.248
0.178 160.740
0.262 162.134
0.388 163.627
0.532 165.020
0.670 166.513
0.886 168.006
1.035 163.925
1.269 164.025
1.401 161.437
1.521 158.750
1.695 154.669
1.911 152.081
2.001 149.394
2.091 142.526
2.145 131.578
2.193 106.895
2.223 84.958
2.248 64.385
2.302 41.076
2.350 27.370
2.410 13.675
2.470 0.000
  
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