**KOSDON I170**

### CERTIFIED VALUES

- **Total Impulse:** 440 newton-seconds
- **Delays:** 11 seconds
- **Propellant Type:** Composite
- **Propellant Mass:** 287.0 grams
- **Casing Dimensions:** 38 mm × 314 mm
- **Certification Date:** 96-June-30
- **Certification Type:** High Power Rocket

### STATIC TEST DATA

- **Date Tested:** 96-March-17
- **Total Impulse:** 433.21 newton-seconds (σ 0.35)
- **Peak Thrust:** 197.54 newtons (σ 4.93)
- **Burn Time:** 2.59 seconds (σ 0.01)
- **Average Thrust:** 167.26 newtons
- **Mass After Firing:** 352.0 grams

<table>
<thead>
<tr>
<th>Delay Time</th>
<th>Average Measured Delay</th>
<th>Initial Mass</th>
<th>Mfg Recommended Max Liftoff Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>11.07</td>
<td>645.0 g</td>
<td></td>
</tr>
</tbody>
</table>

### TYPICAL THRUST-TIME CURVE

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

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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.

I170  38  314  6  .2870  .6450  K
0.021  101.195
0.029  132.631
0.050  166.762
0.093  181.831
0.171  180.434
0.307  183.229
0.436  188.618
0.593  190.015
0.757  192.809
0.914  194.107
1.007  197.540
1.093  194.107
1.229  194.107
1.407  190.015
1.564  185.923
1.686  181.831
1.836  174.945
1.986  164.067
2.129  157.181
2.200  159.976
2.236  158.579
2.264  143.509
2.307  118.959
2.336  99.798
2.386  82.023
2.450  64.249
2.500  39.649
2.543  17.774
2.590  0.000