

KOSDON K450

CERTIFIED VALUES

Total Impulse: 2400 newton-seconds
Delays: 12 seconds

Propellant Type: Composite
Propellant Mass: 1080.0 grams

Casing Dimensions: 75 mm × 368 mm

Certification Date: 98-August-5

Certification Type: High Power Rocket

STATIC TEST DATA

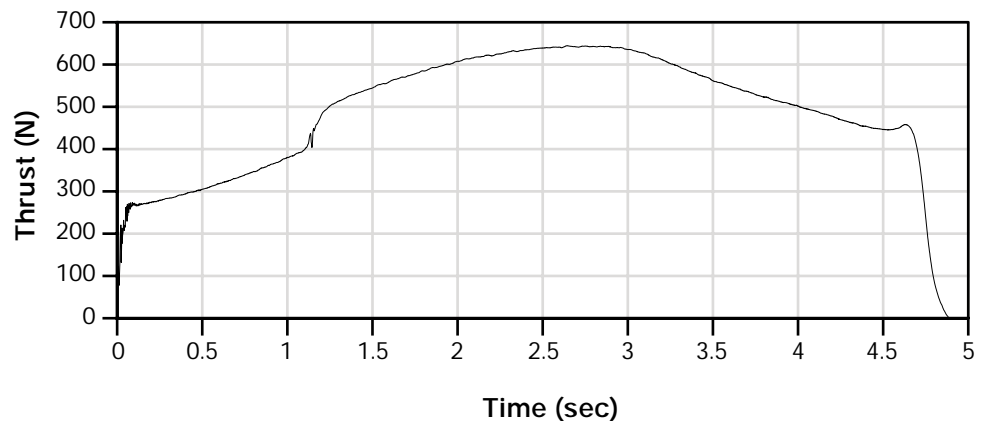
Date Tested: 98-July-18

Total Impulse: 2384.27 newton-seconds (σ 9.55)
Peak Thrust: 643.44 newtons (σ 10.38)
Burn Time: 4.89 seconds (σ 0.11)
Average Thrust: 487.58 newtons

Mass After Firing: 1700.0 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
12	12.20	2830.0 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 K450 RASP.ENG file made from NAR published data
; File produced November 1, 2000
; The total impulse, peak thrust and 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.

K450	75	368	12	1.0800	2.8300	K
0.036	212.986					
0.083	269.737					
0.249	279.278					
0.677	331.257					
1.105	402.319					
1.176	459.069					
1.235	496.936					
1.473	539.573					
1.829	586.881					
2.102	615.207					
2.447	634.190					
2.696	643.440					
2.945	638.960					
3.147	619.977					
3.492	563.227					
3.860	515.819					
4.264	468.511					
4.489	449.627					
4.584	449.627					
4.632	459.069					
4.691	416.432					
4.739	321.815					
4.762	194.003					
4.798	94.656					
4.846	33.125					
4.890	0.000					

