

KOSDON I120

CERTIFIED VALUES

Total Impulse: 580 newton-seconds
Delays: P seconds

Propellant Type: Composite
Propellant Mass: 393.0 grams

Casing Dimensions: 54 mm × 250 mm

Certification Date: 96-June-30

Certification Type: High Power Rocket

STATIC TEST DATA

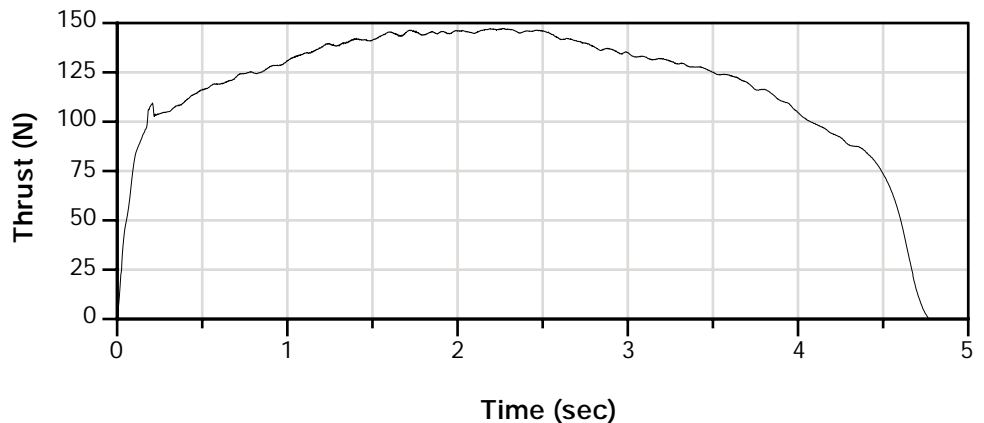
Date Tested: 96-March-17

Total Impulse: 571.47 newton-seconds (σ 20.68)
Peak Thrust: 147.31 newtons (σ 19.77)
Burn Time: 4.77 seconds (σ 0.40)
Average Thrust: 119.81 newtons

Mass After Firing: 570.0 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	969.0 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 I120 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.

I120	54	250	P	.3930	.9690	K
0.059	50.124					
0.095	72.630					
0.142	87.978					
0.213	107.366					
0.248	103.356					
0.437	112.479					
0.627	120.699					
0.804	124.809					
0.957	128.919					
1.217	138.142					
1.418	142.152					
1.655	145.260					
1.986	145.260					
2.246	147.310					
2.541	145.260					
2.778	139.145					
3.038	133.030					
3.404	127.917					
3.712	119.696					
3.948	109.471					
4.054	101.251					
4.314	89.000					
4.421	82.855					
4.527	69.562					
4.610	51.146					
4.657	30.686					
4.693	16.370					
4.728	6.137					
4.770	0.000					

