

ANIMAL MOTOR WORKS I315

CERTIFIED VALUES

Total Impulse: 572.48 newton-seconds
Delays: 20

Propellant Type: Composite / Skidmark
Propellant Mass: 333.7 grams

Casing Dimensions: 38 mm × 370 mm

Certification Date: 06-May-1

Certification Type: High Power Rocket

STATIC TEST DATA

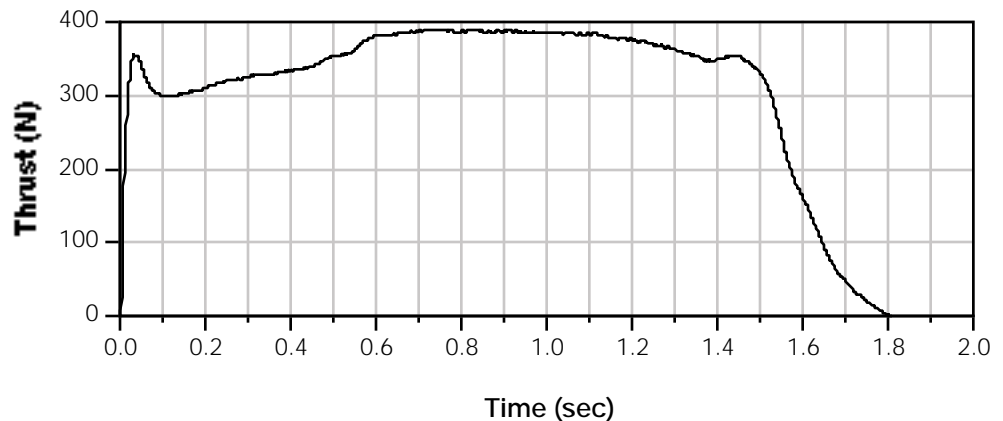
Date Tested: 06-March-30

Total Impulse: 572.48 newton-seconds (4.69)
Peak Thrust: 390.18 newtons (11.13)
Burn Time: 1.81 seconds (0.02)
Average Thrust: 315.88 newtons

Mass After Firing: 382.9 grams

Delay Time	Average Measured Delay	Initial Mass
20	19.99	716.6 g

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 38- 640 motor and Animal Motor Works I315SK-20 reload kit. No substitutions allowed.


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; ANIMAL MOTOR WORKS I315SK RASP.ENG FILE
; 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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      I315   38   370   20   0.334   0.717   AMW
0.016   235.256
0.019   309.832
0.031   344.304
0.045   351.230
0.065   323.063
0.085   306.524
0.136   301.512
0.255   321.460
0.400   334.691
0.463   339.602
0.505   352.934
0.542   356.242
0.599   381.101
0.693   387.716
0.866   390.180
1.031   389.320
1.187   379.397
1.315   361.153
1.389   346.318
1.423   352.934
1.460   352.934
1.508   329.379
1.542   278.358
1.567   217.013
1.598   165.691
1.643   107.654
1.694   54.679
1.727   31.474
1.764   13.251
1.810   0.000
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