

AMW J357

CERTIFIED VALUES

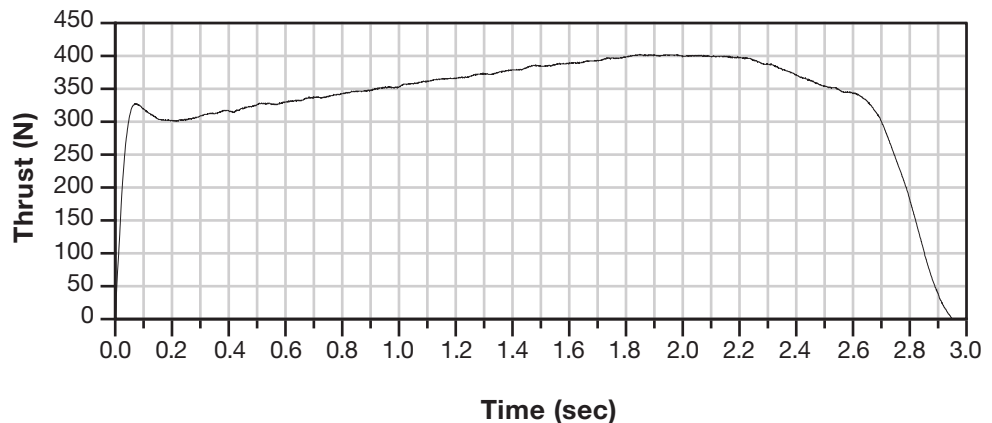
Total Impulse: 1000 newton-seconds
Delays: Plugged
Propellant Type: Composite / White Wolf
Propellant Mass: 548.1 grams
Casing Dimensions: 54 mm x 326 mm
Certification Date: 2002–December–12
Certification Type: High Power Rocket

STATIC TEST DATA

Date Tested: 2002–November–3
Total Impulse: 998.43 newton-seconds (σ 3.50)
Peak Thrust: 402.35 newtons (σ 8.39)
Burn Time: 2.95 seconds (σ 0.06)
Average Thrust: 338.72 newtons
Mass After Firing: 660.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	1210.1 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 54-1050 casing and Animal Motor Works J357-P reload kit. No substitutions allowed.

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; AMW J357 RASP.ENG file made from NAR published data
; File produced December 25, 2002
; 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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J357 54 326 P- 0.5481 1.2101 AMW
0.02 129.64
0.03 205.95
0.05 265.00
0.06 316.51
0.09 326.05
0.13 314.60
0.18 301.25
0.24 299.34
0.35 312.69
0.50 326.05
0.66 333.68
0.87 345.13
1.07 358.48
1.46 383.18
1.77 398.45
1.86 400.36
1.98 402.35
2.18 398.45
2.29 390.82
2.41 369.93
2.51 354.67
2.55 352.76
2.60 347.03
2.65 335.59
2.69 310.79
2.75 249.73
2.81 175.43
2.84 108.65
2.90 53.38
2.92 20.98
2.95 0.00

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