

AMW K975

CERTIFIED VALUES

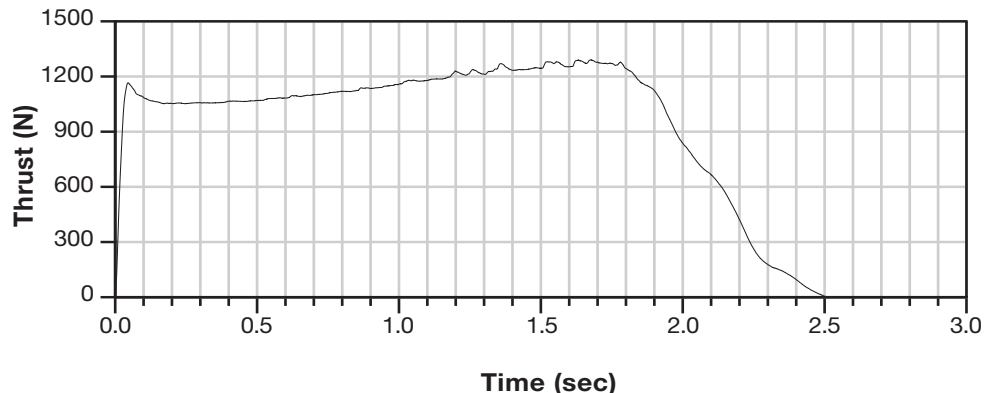
Total Impulse: 2450 newton-seconds
Delays: Plugged
Propellant Type: Composite / White Wolf
Propellant Mass: 1357.3 grams
Casing Dimensions: 54 mm x 728 mm
Certification Date: 2002–December–12
Certification Type: High Power Rocket

STATIC TEST DATA

Date Tested: 2002–November–3
Total Impulse: 2454.38 newton-seconds (σ 33.93)
Peak Thrust: 1290.90 newtons (σ 15.14)
Burn Time: 2.51 seconds (σ 0.03)
Average Thrust: 976.41 newtons
Mass After Firing: 1166.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	2598.5 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 54-2550 casing and Animal Motor Works K975WW-P-SM reload kit. No substitutions allowed.

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; AMW K975 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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K975 54 728 P- 1.357.3 2598.5 AMW
0.017 526.644
0.029 901.850
0.038 1098.918
0.046 1151.722
0.076 1112.867
0.130 1060.063
0.219 1053.089
0.336 1053.089
0.479 1059.066
0.609 1091.944
0.866 1136.778
1.046 1176.630
1.164 1175.634
1.202 1228.437
1.239 1208.511
1.315 1215.486
1.353 1267.293
1.387 1228.437
1.487 1241.389
1.538 1260.319
1.634 1290.900
1.723 1281.241
1.794 1266.297
1.836 1207.515
1.933 1049.103
1.992 851.437
2.080 666.923
2.118 640.521
2.193 462.582
2.269 212.311
2.378 119.854
2.510 0.000

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