NAR OFFICIAL CERTIFICATION LABORATORY

HIGH POWER ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AMW K365

Effective Dates: NAR Certification: 4/1/04

Certified Total Impulse (N-Sec): 1680 Delay Times: Plugged

Propellant Type: Red Rhino Propellant Mass (GM): 946

Casing Diameter (MM): 75 Casing Length (MM): 244

- - - - - - - - - - - - - - - - STATIC TEST DATA - - - - - - - - - - - - -

Number Tested: 3 Casing Date Codes: None

Date Tested: 3/27/04 Test Temp (°c): 17 Elevation (FT): 200

Total Impulse (N-Sec): 1675.27 std. deviation: 4.13

Peak Thrust (Newtons): 565.73 std. deviation: 9.15

Burn Time (Seconds): 4.51 std. deviation: 0.04

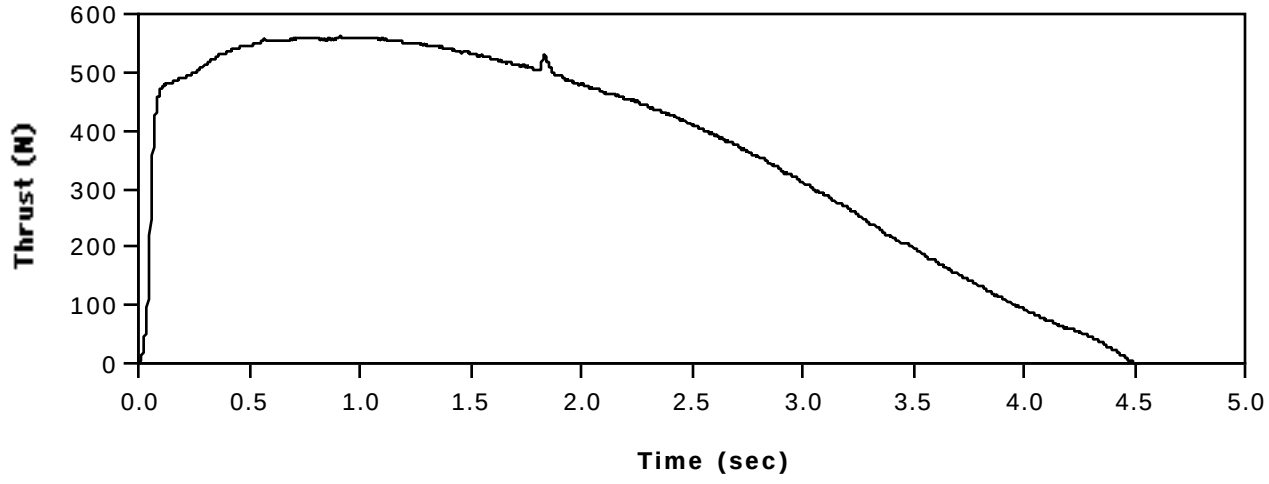
Casing Burnt Mass (GM): 1421.1 Max Casing External Temp (°c): under 200

Delay Time (sec)	Plugged
Initial Mass (gm)	2345.6
Avg. Measured Delay	None

Remarks:

Uses the 75-1700 motor case

Typical Thrust - Time Curve:



John Kane

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; AMW K365RR RASP.ENG file made from NAR published data
; File produced April 19, 2004
; 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.
  K365RR   75  111  P  .946  2.3456  AMW
   0.049     138.157
   0.068     381.241
   0.084     454.750
   0.106     481.536
   0.164     488.182
   0.291     514.867
   0.435     545.982
   0.666     561.490
   0.868     565.730
   1.082     565.518
   1.296     550.111
   1.591     529.871
   1.805     509.731
   1.828     536.517
   1.886     498.554
   2.124     467.237
   2.501     411.350
   2.924     328.677
   3.296     241.573
   3.638     172.293
   3.969     100.798
   4.195     56.098
   4.265     51.607
   4.346     35.959
   4.433     15.859
   4.510     0.000
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