AEROTECH/KBA M2900R

CERTIFIED VALUES

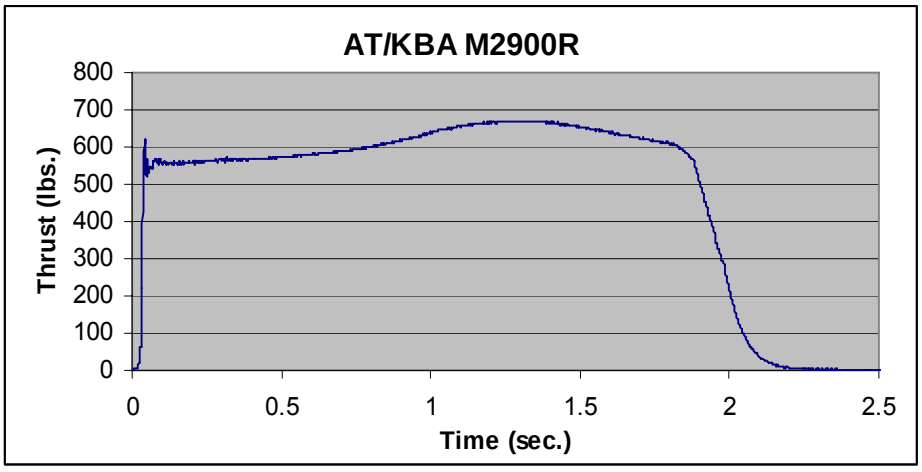
Total Impulse:	5290 Newton-seconds
Delays:	Plugged
Propellant Type:	Redline
Propellant Mass:	3755 grams
Casing Dimensions:	75mm × 1039mm
Certification Date:	July 11, 2007
Certification Type:	High Power Rocket Motor

STATIC TEST DATA

Date Tested:	June 16, 2007	
Total Impulse:	5290 Newton-seconds	(σ 234)
Peak Thrust:	2979 Newtons	(σ 170)
Burn Time:	2.07 seconds	(σ 0.05)
Average Thrust:	2558 Newtons	(σ 180)
Mass After Firing:	2930.5 grams	

Delay Time(sec.)	Plugged		
Average Measured Delay(sec.)	P		
Initial Mass (gm.)	7195		

TYPICAL THRUST-TIME CURVE



REMARKS

Certified for use in AMW 75-7600 hardware only.
No substitutions allowed

Updated: July 11, 2007

Data File #	Engine	Total Impulse	Max Thrust	Avg Thrust	Burn Time	Delay Time	Init Weight	Fired Weight
070616W11	KBA-M2900	5455.0	3099.0	2685.0	2.03	Plugged	7192.0	2936.0
070616W14	KBA-M2900	5124.0	2859.0	2430.0	2.11	Plugged	7198.0	2925.0
Average		5289.5	2979.0	2557.5	2.07		7195.0	2930.5

Std Dev		234.052	169.706	180.312	0.054
Std Dev %		4.4%	5.7%	7.1%	2.6%

Range	Indicated	Actual	Actual	Actual	Actual	Actual	Average
	Plugged	Plugged	Plugged				

; @File: 070616w11.txt, @Pts-I: 1207, @Pts-O: 32, @Sm: 5, @CO: 5%
; @TI: 5460.0, @TIa: 5447.69, @TIe: 0.0%, @ThMax: 3102.43, @ThAvg: 2675.68, @Tb: 2.036
; Exported using ThrustCurveTool, www.ThrustGear.com
M2900 75 1039 Plugged 3.755 7.195 RCS/AT
0.0 2.43719
0.034 19.46798
0.05 69.6872
0.052 166.1283
0.056 533.998
0.06 1067.235
0.064 1683.239
0.066 1897.533
0.072 2294.77
0.082 2495.75
0.102 2708.42
0.108 2734.74
0.204 2696.52
0.438 2690.17
0.726 2744.74
0.824 2794.0
1.1159 3041.86
1.3179 3102.43
1.5659 3015.86
1.8159 2846.44
1.8639 2744.09
1.8979 2565.3
1.9079 2455.92
1.9599 1357.389
1.9879 857.187
2.0059 603.283
2.0259 417.576
2.0439 303.914
2.0899 150.6162
2.1419 73.2216
2.2259 25.6056
2.4119 0.0