

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET MOTOR TESTING REPORT

Manufacturer and Type: AEROTECH F26FJ

Effective Dates: NAR Certification: 4/10/05

Certified Total Impulse (N-Sec): 62.19 Delay Times: 6, 9

Propellant Type: Black Max Propellant Mass (GM): 43.1

Casing Diameter (MM): 29 Casing Length (MM): 98

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

Number Tested: 16

Casing Date Codes: None

Date Tested: 4/9/05

Test Temp (°c): 22

Elevation (FT): 20

Total Impulse (N-Sec): 62.19 std. deviation: 0.30

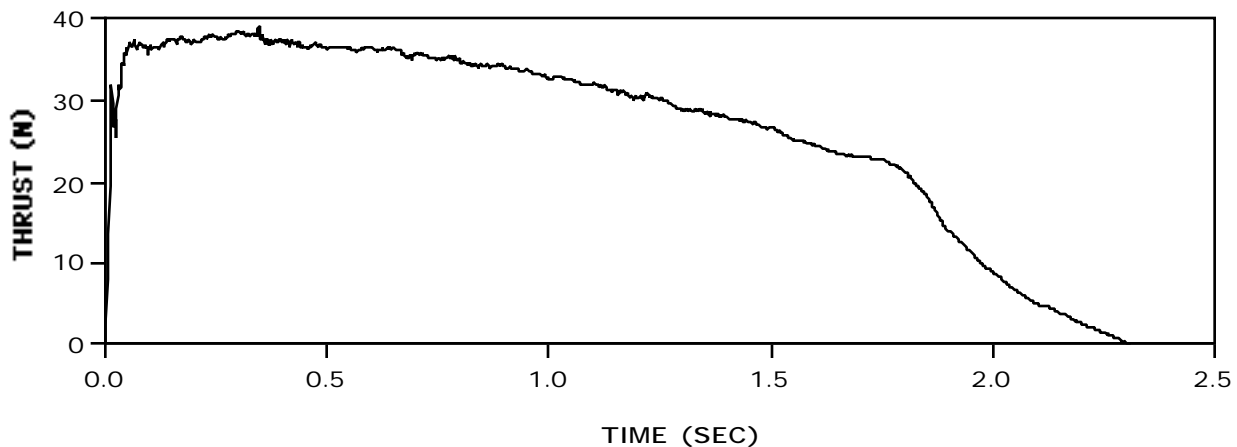
Peak Thrust (Newtons): 39.16 std. deviation: 0.75

Burn Time (Seconds): 2.31 std. deviation: 0.04

Casing Burnt Mass (GM): 43.4 Max Casing External Temp (°c): under 200

Delay Time (sec)	6	9
Initial Mass (gm)	100.8	101.1
Avg. Measured Delay	6.32	7.87

Remarks:



John Kane
NAR S&T Committee Chairman

			AEROTECH F26	FIRED 4/9/05							
FILE	MOTOR		ENGINE	TOTAL	MAX	AVG	BURN	DELAY	INIT	EMPTY	
	NO.		TYPE	IMPULSE	THRUST	THRUST	TIME	TIME	WEIGHT	WEIGHT	
AT201	1		F26-6	62.21	38.11	27.24	2.28	6.11	100.94	50.45	
AT202	2		F26-6	62.17	38.56	27.39	2.27	6.11	100.65	50.04	
AT203	3		F26-6	61.66	38.69	26.37	2.34	6.73	100.82	50.17	
AT204	4		F26-9	62.04	40.08	27.50	2.26	8.17	101.13	49.92	
AT205	5		F26-9	62.66	39.53	26.60	2.36	8.23	101.12	50.10	
AT206	6		F26-9	62.37	40.00	26.72	2.33	7.21	100.96	50.03	
AVG				62.19	39.16	26.96	2.31				
STD				0.30	0.75	0.43	0.04				
STD %				0.49	1.91	1.58	1.65				
				DELAYS							
ALLOWABLE											
RANGE			INDICATED	AVG	ACTUAL	ACTUAL	ACTUAL				
4.8	TO	7.2	6	6.32	6.11	6.11	6.73				
7.2	TO	10.8	9	7.87	8.17	8.23	7.21				