

AEROTECH F51

CERTIFIED VALUES

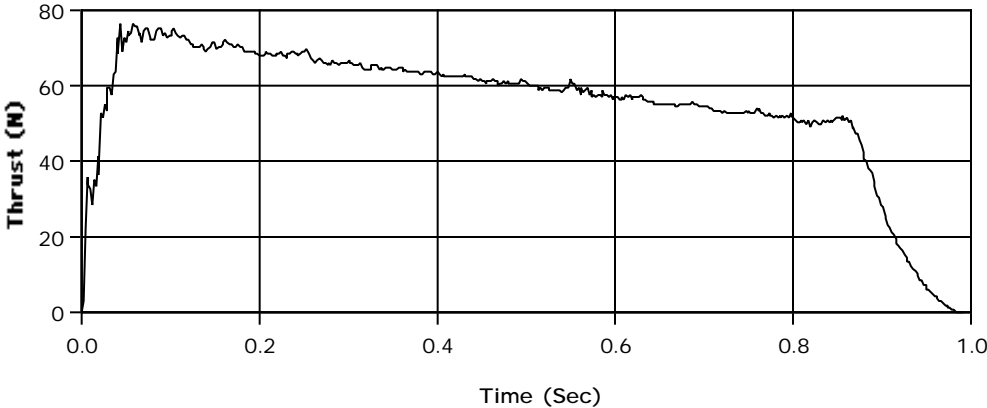
Total Impulse: 55.11 Newton-seconds
 Delays: 10 Seconds
 Propellant Type: NT - New Thunder
 Propellant Mass: 26.5 Grams
 Casing Dimensions: 24 mm x 95 mm
 CertificationDate: 17-October-30
 CertificationType: Model Rocket

STATIC TEST DATA

Date Tested: 17-October-29
 Total Impulse: 55.11 Newton-seonds (0.37)
 Peak Thrust: 76.53 Newtons (14.86)
 Burn Time: 0.99 Seconds (0.04)
 Average Thrust: 55.89 Newtons
 Mass After Firing: 48.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
10	9.00	81.0 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Aero F51-10NT			Fired Oct 29, 2017			
FILE	ENGINE	TOTAL	MAX	AVG	BURN	DELAY
NAME	TYPE	IMPULSE	THRUST	THRUST	TIME	TIME
AT171021	F51-NT-10	55.246	72.884	57.910	0.954	9.082
AT171022	F51-NT-10	55.151	74.826	57.211	0.964	8.666
AT171023	F51-NT-10	54.432	72.992	54.761	0.994	8.618
AT171024	F51-NT-10	54.684	73.948	55.464	0.986	8.764
AT171025	F51-NT-10	54.798	68.378	52.090	1.052	9.648
AT171026	F51-NT-10	54.967	67.963	52.963	1.042	9.122
AT171027	F51-NT-10	54.967	72.281	56.784	0.968	8.934
AT171028	F51-NT-10	55.310	73.424	57.856	0.956	8.888
AT171029	F51-NT-10	55.652	77.144	60.492	0.920	8.558
AT171030	F51-NT-10	55.718	69.792	55.829	0.998	9.200
AT171031	F51-NT-10	55.486	69.672	55.155	1.006	9.744
AT171032	F51-NT-10	54.924	125.032	54.166	1.014	8.826
	AVG	55.11	76.53	55.89	0.99	9.00
	STD	0.37	14.86	2.23	0.04	
	STD %	0.68	19.41	3.99	3.69	