## **ESTES A8**

CERTIFIED VALUES	Total Impulse: Delays:	2.50 newton-seconds 3, 5 seconds
	Propellant Type: Propellant Mass:	Black Powder 3.3 grams
	Casing Dimensions	: 18 mm × 70 mm
	Certification Date: Contest Use Date:	J
	Certification Type:	Model Rocket
STATIC TEST DATA	Date Tested:	95-March-25
	Total Impulse: Peak Thrust: Burn Time: Average Thrust:	2.32 newton-seconds (σ 0.06) 9.73 newtons (σ 0.58) 0.73 seconds (σ 0.03) 3.18 newtons
	Mass After Firing:	10.2 grams
		AverageMfg Recommendedsured DelayInitial MassMax Liftoff Weight2.2516.7 g113.2 g4.4516.0 g56.6 g



## REMARKS

; Estes A8 RASP.ENG file made from NAR published data

; File produced October 3, 2000

; 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. A8 18 70 3-5 .0033 .01635 E

0.041 0.512 0.084 2.115 0.127 4.358 0.166 6.794 0.192 8.588 9.294 0.206 0.226 9.730 0.236 8.845 0.247 7.179 0.261 5.063 3.717 0.277 0.306 3.205 0.351 2.884 0.405 2.499 0.467 2.371 0.532 2.307 0.589 2.371 0.632 2.371 0.652 2.243 0.668 1.794 0.684 1.153 0.703 0.448 0.730 0.000

