



## Available for Immediate Pre-Ordering!

### AeroTech N4000W-PS RMS™ “Collegiate” Rocket Motor Reload Kit and RMS-98/20480 Motor Hardware Casing

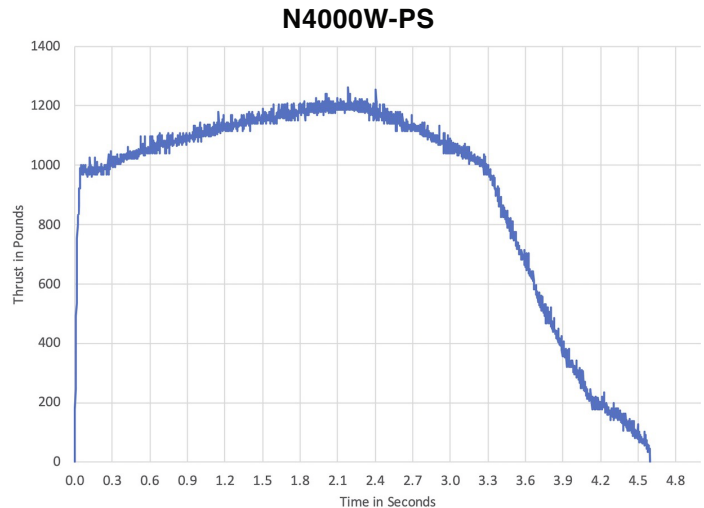
#### New Product Information Release 02/10/2023

AeroTech/Quest is pleased to announce our new N4000W-PS RMS™ Reloadable Motor System™ rocket motor reload kit designed for use in AeroTech’s new RMS-98/20480 Rocket Motor Hardware Casing. This powerful new rocket motor has been developed specifically to meet the lifting and performance requirements of college and university rocket teams seeking to achieve altitudes of 30,000 ft. or more. Tripoli certification is in process and availability is anticipated well before IREC in June 2023 and we are accepting pre-orders now.

The N4000W-PS rocket motor reload kit delivers an impressive 18,540 N-Sec (4,168.2 lb.-Sec.) of total impulse, the highest of any 98mm RMS motor, with a 4.6 second burn time and an all-up weight in the RMS-98/20480 motor hardware of 35.8 lb. (16,252 g). Featuring AeroTech’s aerospace-grade White Lightning™ propellant formulation, the peak thrust is 5,320 N (1,196 lb.) with an average thrust of approximately 4,000 N (899 lb.) and a propellant weight of 9,800 g (21.6 lbs.). Our White Lightning™ propellant produces a brilliant white exhaust plume with lots of bright white smoke and a throaty roar at lift-off. Although the N4000W-PS produces delay smoke, it is a “plugged” motor that does not include an ejection charge and requires the utilization of an electronically-activated recovery system. Along with the new RMS-98/20480 RMS motor casing, the N4000W-PS is designed to provide collegiate rocket teams with a powerful and available option for the 30,000-foot altitude event at IREC. The N4000W-PS also requires use of a 98mm stainless steel forward seal disk (98FSDSS) and standard 98mm RMS forward and aft closures. The RMS-98/20480 motor case is sized for 8 traditional length propellant grains, however, the N4000W-PS reload kit features 7 longer propellant grains for its tailored ballistic properties.

#### N4000W-PS Specifications

- Diameter: 98mm (3.88")
- Total Overall Length: 1,430 mm (56.3")
- Propellant: White Lightning™
- Total Impulse: 18,540 N-Sec. (4,168.2 lb.-Sec.)
- Burn Time: 4.6 Seconds
- Peak Thrust: 5,320 N (1,196 lbs.)
- Delay Time: Plugged with Smoke
- Propellant Weight: 9,800 g (21.6 lbs.)
- Loaded Weight: 16,252 g (35.8 lb.)



This motor cannot be sold or used as a “high power rocket motor” in California due to OSFM regulations. The N4000W-PS (No. 14400P) RMS Reload Kit ships with a standard FirstFire™ Initiator, has a suggested retail price of \$1,799.99 each and may be purchased by consumers 18 years of age or older with a Level 3 NAR or TRA Certification or by educational institutions, government agencies or licensed commercial entities. The RMS-98/20480 motor casing (No. 9820C) has a suggested retail price of \$1,499.99 each.

AeroTech invented the reloadable high-power rocket motor in 1990 and continues to lead the sport rocket industry in single-use and reloadable motor technology. All RMS motor hardware features aircraft-grade machined aluminum casings and forward and aft closures with integral thrust rings. Thrust rings on RMS motors are designed to fit standard motor retainers.

TRA certification documents, RMS motor instructions and assembly drawings for the entire RMS line will be available for download in PDF format from the Resource Library on the AeroTech/Quest website at <http://www.aerotech-quest.com>. For more information or to order contact: [customerservice@aerotech-rocketry.com](mailto:customerservice@aerotech-rocketry.com)