



AeroTech O5500X-PS DMS™ 98mm High-Power Single-Use Rocket Motor New Product Information Release 1/12/2023

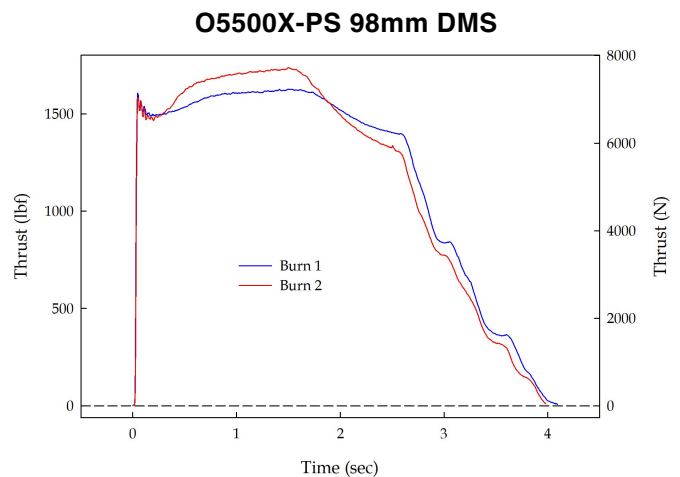
AeroTech is pleased to announce the Tripoli certification of the O5500X-PS, a new 98mm DMS Disposable Motor System™ single-use rocket motor that produces the highest certified total impulse of any 98mm rocket motor ever sold to the sport rocketry market.

The new O5500X-PS DMS rocket motor replaces the O5280X-PS DMS rocket motor that has been placed on hold for more than a year due to casing integrity concerns. The O5500X-PS utilizes a new, thicker walled fiberglass casing and features updated assembly instructions, plus a new instructional video.

The O5500X-PS (P/N 15550P) motor uses AeroTech's high-Isp Propellant X™ to produce an exceptionally high total impulse, accompanied by a bright white flame with a moderate amount of smoke. The motor delivers 21,384 N-sec (4,808 lb. sec) of total impulse in 4.03 seconds making it ideal for extreme high-altitude attempts (including two-stage flights to the edge of outer space!) and sport flights in heavy weight rockets. The O5500X-PS is a "plugged" motor that produces tracking smoke only, and cannot be configured with an integral ejection charge. Rockets using 75 and 98mm DMS motors must utilize an electronically-activated recovery system.

O5500X-PS 98mm DMS Specifications

Diameter: 3.875" (98mm)
Length: 55.44" (1,408mm)
Propellant: Propellant X
Total impulse: 21,384 N-sec (4,808 lb.-sec)
Burn time: 4.03 sec
Peak thrust: 1,698 lbs. (7,552 N)
Delay time: N/A (plugged)
Propellant wt.: 9,779 grams (21.56 lb.)
Loaded wt.: 16,937 grams (37.34 lb.)



The O5500X-PS may be purchased by L3 certified consumers 18 years of age or older. Availability is anticipated for Spring 2023 and we are accepting pre-orders now. The O5500X-PS ships with a FirstFire™ initiator and carries a suggested retail price of \$2,999.99.

The O5500X-PS DMS motor features a filament-wound fiberglass casing, a glass-reinforced composite phenolic nozzle and a machined aluminum bulkhead with a built-in 3/8-16 thread for a matching eye bolt. The O5500X-PS motor is configured with a removable, threaded fiberglass thrust ring. Thrust rings on DMS motors are designed to fit standard motor retainers. All DMS motors ship with a FirstFire or FirstFire Jr.™ initiator. The O5500X-PS is sold in kit form for shipping purposes and requires a specific build process that must be followed precisely for proper and safe operation. All necessary adhesives and instructions are included.

The DMS motor design is protected under U.S. patent no. 9,416,753 B2 and other patents pending. TRA certification documents, DMS motor instructions and a data sheet containing information for the entire DMS line are available for download in PDF format from the Resource Library on the AeroTech website at <http://www.aerotech-rocketry.com>