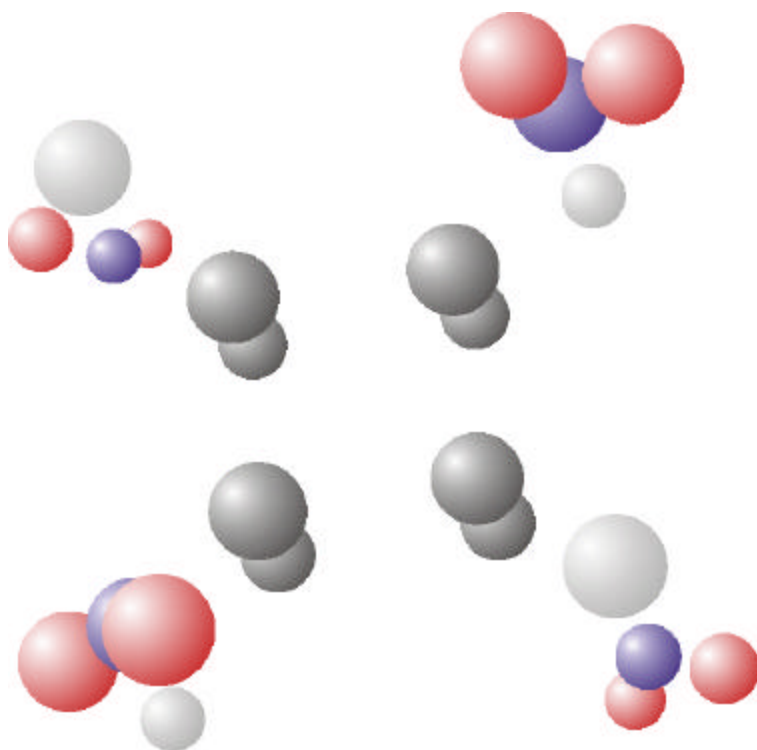


Energetic Materials of Oklahoma, L.L.C



**2001
Catalog and Price List**

Welcome to the 2001 catalog and price list for Energetic Materials of Oklahoma, L.L.C.! Energetic Materials of Oklahoma, L.L.C. was started in the middle of the year 2000 with the sole intent to be a provider for restricted access rocket motors and rocket motor reloads for residents of the state of Oklahoma who either did not have nor wished to obtain a Low Explosive User's License (LEUP) or wanted to avoid the costly HAZMAT fees associated with shipping restricted access rocketry-related materials. As with all things, our product line has started to grow beyond AeroTech restricted access products to include ignition and staging materials as well as both raw materials and fabricated composite material parts. We also write software to assist in the design of experimental solid propellant rocket motors. Currently this software is free and can be downloaded from <http://www.tamcon.com/emook/>. If you don't find what you need in this catalog, please contact us and we will see if we can add it to our ever-growing product line. And if you need to borrow an RMS casing to burn a motor you buy from us, just let us know in advance.

Thank you for your business,



Timothy A. Melton, Ph.D.
Owner

What's that funky logo, anyway?

The logo of Energetic Materials of Oklahoma is a structural model of the molecule tetranitrocubane, a very energetic high explosive. Cubanes are compounds formed from a core of eight carbon atoms arranged in a cube, each one sharing a bond with three other carbon atoms. As the "preferred" bond angle between carbon atoms is 109.5° , forcing the atoms closer together to form 90° angles requires a great deal of energy. As a result, when these bonds are broken during combustion, a great deal of energy is released. Substitute nitro- groups for the hydrogen atoms that normally form the fourth bond to each carbon, and you make a very powerful, yet surprisingly stable, high explosive. Tetranitrocubane has four such nitro- groups substituted, but the fully substituted nitrocubane, octanitrocubane, has also been produced in the laboratory. Cubanes have a wide range of potential uses from explosives to medicines. It forms the basis of quite a few energetic materials indeed.

AeroTech Products



Restricted Access RMS Hardware

Prod. No.	Description	Retail Price	EMoOK Price
54 mm Hardware			
5485S	54/852-1706 system	\$229.95	\$195.95
5485M	54/853 motor	\$119.95	\$101.95
5412M	54/1280 motor	\$134.95	\$113.95
5417M	54/1706 motor	\$139.95	\$118.95
5425M	54/2560 motor	\$169.95	\$144.95
54FCC	54 forward closure	\$35.95	\$30.95
54FCP	54 forward closure, plugged	\$35.95	\$30.95
54FCE	54 forward closure, extended	\$39.95	\$33.95
54FCEP	54 forward closure, ext.+plugged	\$39.95	\$33.95
54ACC	54 aft closure	\$35.95	\$30.95
5485C	54/852 casing	\$49.95	\$42.95
5412C	54/1280 casing	\$59.95	\$50.95
5417C	54/1706 casing	\$69.96	\$59.95
5425C	54/2560 casing	\$99.95	\$84.95
75 mm Hardware			
7525S	75/2560-6400 system	\$899.95	\$764.95
7525M	75/2560 motor	\$279.95	\$237.95
7538M	75/3840 motor	\$299.95	\$254.95
7551M	75/5120 motor	\$319.95	\$271.95
7564M	75/6400 motor	\$369.95	\$314.95
75FCP	75 forward closure, plugged	\$69.95	\$59.95
75ACC	75 aft closure	\$59.95	\$50.95
7525C	75/2560 casing	\$159.95	\$135.95
7538C	75/3840 casing	\$179.95	\$152.95
7551C	75/5120 casing	\$199.95	\$169.95
7564C	75/6400 casing	\$259.95	\$220.95
98 mm Hardware			
9825S	98/2560-10240 system	\$999.95	\$840.95
9525M	98/2560 motor	\$399.95	\$339.95
9851M	98/5120 motor	\$419.95	\$356.95
9876M	98/7680 motor	\$449.95	\$382.95
9810M	98/10240 motor	\$499.95	\$424.95
9815M	98/15360 motor	\$599.95	\$509.95
98FCP	98 forward closure, plugged	\$129.95	\$110.95

98ACC		98 aft closure	\$119.95	\$101.95
9825C		98/2560 casing	\$219.95	\$186.95
9851C		98/5120 casing	\$249.95	\$212.95
9876C		98/7680 casing	\$299.95	\$254.95
9810C		98/10240 casing	\$339.95	\$288.95
9815C		98/15360 casing	\$399.95	\$339.95

Restricted Access RMS Reloads

Prod. No.		Description	Retail Price	EMoOK Price
54/852 reloads				
10090S,M,L		J90W-S, M, L	\$66.95	\$59.95
10180S,M,L		J180T-S,M,L	\$66.95	\$59.95
10275S,M,L,X		J275W-S,M,L,X	\$66.95	\$59.95
10460S,M,L,X		J460T-S,M,L,X	\$66.95	\$59.95
54/1280 reloads				
10135S,M,L		J135W-S,M,L	\$79.95	\$71.95
10415S,M,L,X		J415W-S,M,L,X	\$79.95	\$71.95
10800S,M,L,X		J800T-S,M,L,X	\$79.95	\$71.95
54/1706 reloads				
11185S,M,L		K185W-S,M,L	\$93.95	\$83.95
11550S,M,L,X		K550W-S,M,L,X	\$93.95	\$83.95
11110S,M,L,X		K1100W-S,M,L,X	\$93.95	\$83.95
54/2560 reloads				
11700P		K700W-P	\$113.95	\$102.95
75/2560 reloads				
11560P		K560W-P	\$139.95	\$124.95
75/3840 reloads				
12850P		L850W-P	\$199.95	\$179.95
75/5120 reloads				
12112P		L1120W-P	\$259.95	\$232.95
75/6400 reloads				
13131P		M1315W-P	\$319.95	\$287.95
98/2560 reloads				
11458P		K458W-P	\$155.95	\$139.95
11650P		K650T-P	\$155.95	\$139.95
98/5120 reloads				
12952P		L952W-P	\$299.95	\$269.95
12150P		L1500T-P	\$299.95	\$269.95
98/7680 reloads				
13141P		M1419W-P	\$446.95	\$399.95
13240P		M2400T-P	\$446.95	\$399.95
98/10240 reloads				
13193P		M1939W-P	\$599.95	\$539.95

13250P		M2500T-P	\$599.95	\$539.95
98/15360 reloads				
14200P		N2000W-P	\$839.95	\$754.95
Miscellaneous				
89894		FirstFire Ignitors (3 pack)	\$5.95	\$5.49
89895		FirstFire Jr. Ignitors (3 pack)	\$5.95	\$5.49
RDK-[09-18]		Delay kits (3 pack)	\$4.95	\$4.49

Restricted Access Single Use Motors

Prod. No.		Description	Retail Price	EMoOK Price
29mm motors				
085506,10,14		H55W-6,10,14	\$20.95	\$18.95
087006,10,14		H70W-6,10,14	\$25.95	\$23.95
081246,1,4		H124W-6,10,14	\$21.50	\$19.95
081256,1,4		H125W-6,10,14	\$41.95	\$37.95
38mm motors				
084510,15		H45W-10,15	\$41.95	\$37.95
091310,15		I132W-10,15	\$83.95	\$75.95
54mm motors				
0965P		I65W-P	\$83.95	\$75.95
10125P		J125W-P	\$146.95	\$132.95
11250P		K250W-P	\$214.95	\$193.95
11105P		K1050W-P	\$214.95	\$193.95

Ignition Supplies

Prod. No.		Description	Retail Price	EMoOK Price
OXR2		Oxral Electric Match – 2m leads		\$1.25
89894		FirstFire Ignitors (3 pack)	\$5.95	\$5.49
89895		FirstFire Jr. Ignitors (3 pack)	\$5.95	\$5.49
THRS		Thermalite Red (slow)		\$1.00/ft.
THRM		Thermalite Green (medium)		\$1.00/ft.
THRF		Thermalite Black (fast)		\$1.00/ft.

• Availability and pricing subject to change.

(NOTE: All prices are subject to change without notice.)

Composite Materials

Energetic Materials of Oklahoma carries many materials needed for composite rocket construction. From dry cloth to core materials to pre-impregnated cloth, if you need it we either have it on hand or can probably acquire it. We can also get resins, but most people would save more money and time by purchasing



epoxy systems that fit their needs from local retailers. The table below lists prices for materials that we almost always have on hand. We also often have carbon fiber cloth as well as unidirectional carbon tow available. If you're looking at pre-preg, be aware that this is 350° F cure material and that you will need a heated curing chamber and vacuum bagging apparatus and materials to properly use it. If you need parts or sheets made from pre-preg materials, get in touch with us and we will let you know what it would cost for us to make it for you. If you want pre-preg shipped, the cost of priority shipping, dry ice, and HAZMAT will be additional.

Prod. No.	Description	Retail Price	EMoOK Price
PEDG0350	3 oz. Dry fiberglass cloth, 50" width		\$6.50/yd.
PECPVC4	¼" thick PVC core material		\$4.00/ft. ²
PECNH8	1/8" thick Nomex honeycomb core material		\$5.00/ft. ²
PECNH4	¼" thick Nomex honeycomb core material		\$5.00/ft. ²
PECNH2	½" thick Nomex honeycomb core material		\$6.00/ft. ²
PECENH2	½" thick over-expanded Nomex honeycomb core		\$6.00/ft. ²
PEGMB	Glass microballoon epoxy filler		\$7.50/liter
PEPC0042	350° F cure carbon fiber pre-preg cloth, 42" width		\$14.00/ft.
PEPCUT12	Unidirectional pre-preg carbon fiber tape, 12" width		\$7.00/ft.

(NOTE: All prices are subject to change without notice.)

Ordering

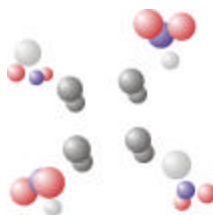
Orders may be sent via e-mail to emook_orders@tamcon.com, via the EMoOK web page <http://www.tamcon.com/emook/> (which will soon have a secure transaction form for added security), or by calling (405) 203-2859. Be sure to include your name, NAR or TRA number, and cert level. Orders for restricted access materials must be taken through the business office of Energetic Materials in Oklahoma City. I cannot take orders on site, but I can deliver orders to any launch that I will be attending. Anyone who will take delivery of their order as soon as it becomes available (that is, you either plan on using it or storing it according to BATF regulations within 24 hours) may take 5% off of their total. Don't forget that OKC sales tax is applicable.

Payment

Energetic Materials of Oklahoma, L.L.C accepts cash, personal or business checks, Visa, and Master Card. Payment is not due until the order is in hand on our premises. If you are taking advantage of the 5% discount, you must take delivery of your order within 24 hours of notification of its availability.



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