

MSR

STOVES
PP.23



CLIMBING
HELMETS
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DESIGN FOR FUNCTION

MSR was founded in the late 1960's as a service to mountaineers. Our research and testing of outdoor equipment showed several products then on the market to be defective. For instance, 12% of the wooden shafts of a large stock of ice axes broke with as little as 400 lbs. force. Some broke at 200 lbs. force. Carabiners with an advertised test strength of 2900 lbs. were found to break at 1600 lbs. Findings such as these inspired MSR to seek better alternatives. With new ideas and innovative engineering, MSR has pioneered the development or redesign of many types of equipment for mountaineers, backpackers, bicyclists and campers.



Mountain Safety Research
631 South 96th Street
Seattle, WA 98108
(206) 762-6750 (Orders)

STOVES



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THE MSR STOVE SYSTEM

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The MSR Stove System was developed specifically to melt enough snow to water fast enough to aid in one of MSR's first endeavors, the study of acute mountain sickness. Other stoves then on the market could not do the job. We have made improvements since that first model and believe the current models G and G/K are the finest backpacking and mountaineering stoves on the market. Speed, versatility, efficiency, stability and compactness are features which describe the MSR Stove System, making it popular among boaters, bicyclists, campers and other outdoor enthusiasts. #22-101, Model G, 15 oz.; #22-102, Model G/K, 16 oz.

MSR Stoves are:

FAST

From resting deep in your backpack to readying a hot meal, the MSR Stoves are fast. Cold mornings and chilly evenings will seem a little less cruel. MSR Stoves will boil a quart of water in 3½ minutes, a time hardly altered by wind, rain and cold because of MSR's effective windscreen and heat reflector. Starting the stove in nasty conditions is easy and quick. No matches are required when using white gas or auto gas because of the built-in sparker.



VERSATILE

What if you can't get white gas? There are places in the world where you can't. What then? Take the MSR Stove along. The model G burns white gas (Coleman or Blazo), leaded and unleaded auto gas, even aviation fuel. In addition, the G/K burns kerosene, deodorized kerosene, stoddard solvent, #1 diesel and #1 stove oil. And if low grade or dirty fuels clog your stove, you can easily clean it even if you are in the field. That's what we call field maintainable.

COMPACT - LIGHTWEIGHT - STABLE

MSR Stoves in the operating position have a low profile and the outrigger effect of the fuel bottle provides excellent stability. When not in use, the burner assembly separates from the pump to make the stove very compact for storage and transportation. The pump can be left in the fuel bottle on trips to avoid fuel spillage, therefore the bottle acts as both storage container and fuel reservoir. The G Stove System (pump, burner, windscreen and heat reflector) weighs 15 ounces and the G/K Stove weighs only one ounce more. The MSR Fuel Bottle weighs 4½ ounces. The entire system is amazingly light considering the great heat output.



EFFICIENT

A quart of white gas will generate heat in an MSR Stove to boil 48 quarts of water or melt snow to 48 quarts of water. The fast cooking time with the windscreen and heat reflector means higher fuel efficiency because there is less time and opportunity for heat loss. This means savings in fuel cost.



The features of the MSR Stove System make it right for you, whether you are going to the top of the world or to the woods for a weekend.

WARNING: DO NOT USE GASOLINE IN A TENT. An explosive atmosphere may result. We recommend against cooking in a tent, but when you have no choice, use kerosene in a G/K because it is far less volatile.



STOVE ACCESSORIES



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DELUXE STUFFLE BAG

This extra durable, spacious Stove Stuffle Bag, made of tough cordura nylon, has a zippered opening for easy access and a special inside pocket to hold the stove instruction book, maintenance kit, windscreen and heat reflector. Bottom lengthwise straps make it usable as an accessory side pocket for many backpacks. Plenty of room for the stove, fuel bottle & all the extras. #22-244, 1½ oz.

STOVE STUFF SACK

Designed for the MSR Stove System or for odds and ends. Coated nylon pack cloth. Very sturdy. #22-252, 1½ oz.

ALUMINUM CUP

Holds 13 ounces. Easy to clean. Doubles as a water dipper and MSR Stove burner cover. #22-206, 1 oz.

FILTER FUNNEL

Filter as you funnel. Since fuel can be of inconsistent quality, MSR recommends the filtering of fuel. This filter allows you to remove impurities as you fill your fuel bottle. Removable filter. #22-217, 1½ oz.

POT LIFTER

Don't sizzle your fingers trying to support your pot full of delicious food. Use our pot lifter instead. A must if you cook outdoors. #22-104, 2 oz.

MAINTENANCE KIT

The Maintenance Kit includes selected parts to aid in repairs in the field for MSR G and G/K Stoves. For a weekend trip or major expedition these kits can be invaluable. Parts include:

Surge Damper, Jet Assembly, Leather Pump Cup, Pump Cup Retainer, Jet Cleaning Wire, O-Ring for Fuel Tube Socket, Flame Spreader, Package of Flints, Control Valve O-Ring. Set of Instructions.

#22-129, 1 oz.

MSR FUEL BOTTLE

Store and transport fuel for camping and backpacking stoves, lanterns, heaters, etc. in the MSR Fuel Bottle. Made of sturdy, durable aluminum. Fits the MSR Stove System of course, and packs away nicely in side pockets of backpacks or in the MSR Stuffle Bag or Stove Stuff Sack. 22 fluid ounce capacity. #22-210, 4½ oz.

ALUMINUM POT

This 3 quart pot has a blackened outer surface to absorb heat (rather than reflect it like conventional pot surfaces) and makes cooking more efficient. It lid to fit. (Pots #22-1025, 5 oz.; #22-042, 3 oz. 11.12)

SPARE PARTS KIT

If you have an MSR stove purchased prior to 1977 and want to keep it in top working condition, use new, filtered fuel and always keep a Spare Parts Kit on hand. The Spare Parts Kit includes:

Jet Assembly, Flame Spreader, Jet Cleaning Wire, Set of Instructions, Package of Flints, Pump Cup Retainer, Leather Pump Cup, O-Ring for Fuel Tube Socket, Control Valve O-Ring.



HARDWARE



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MSR SNOW SHOVEL

The MSR Snow Shovel is strong enough to move the heavy snows of winter mountaineering. It has a large capacity but is still lightweight because you use your ice axe as the handle. Use it as a "deadman" snow anchor or as a platform for your stove. 11" square. #6040, 1 lb., 2 ea.

MSR SNOW FLUKES

A dynamic snow anchor for snow climbing. The fixed angle of the cables causes the fluke to sail down deeper into the snow absorbing the energy of the fall as it goes. Pre-test the holding power in soft snow with a hard crust. #6031, 5' x 10", 9 oz.
#6032, 6' x 12", 11 oz.



AVALANCHE PROBES

Essential tools for avalanche victim search. Aluminum alloy probes come in 2 and 3 foot sections. Equip each member of your party with one or several sections and a probe point. The Avalanche Probe Set consists of four 3 foot sections and a probe point in a deluxe probe sack with specially designed probe point pocket. 2 foot probe sacks are also available.

#6003, 2' Probe, 4 ea.
#6003, 3' Probe, 4 ea.
#6004, Probe Pt., 1 ea.

#6006, 2' Sack, 2 ea.
#6005, 3' Sack, 2 ea.
#12-160, Probe Set,
1 lb., 6 ea.

MSR LOCK LINK

With an abundance of room, the MSR Lock Link is ideal for tying into a climbing harness or for use with a friction hitch. The threaded lock nut slides up to make the opening—no swinging gate to jam against ropes inside. Flat edges on the lock nut mean ropes running along it won't cause it to open. Test strength 5000 lbs. 4 1/4" long. #4201, 2 1/2 oz.

MSR RESCUE PULLEY

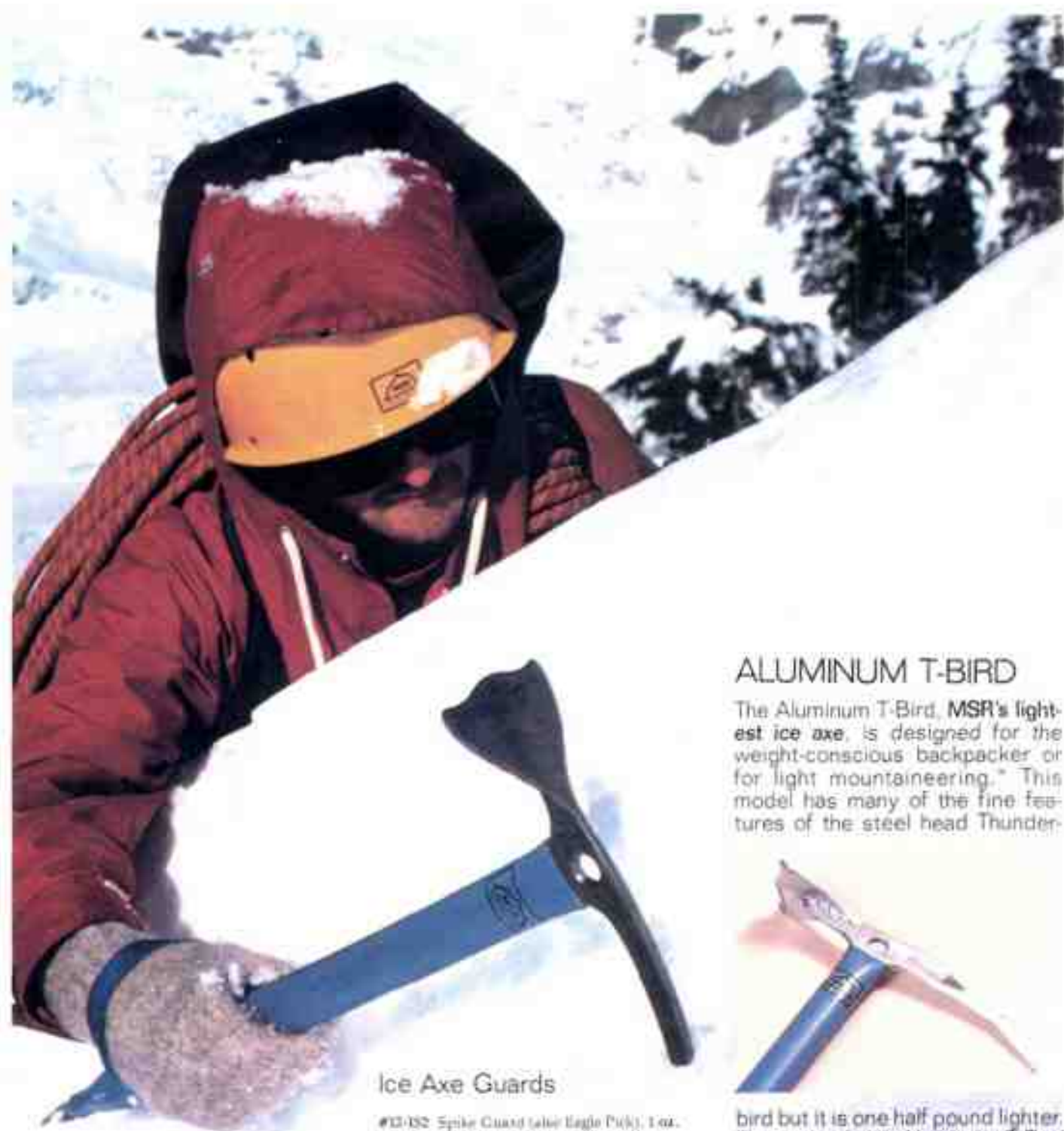
The brass bearing is the differential it reduces friction, common in other rescue pulleys by preventing the side plates from pinching the Delrin plastic pulley wheel. Extra wide aluminum side plates prevent rotation and twisted ropes. Test strength 3000 lbs. #6042, 2 oz.



ICE AXES



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ALUMINUM T-BIRD

The Aluminum T-Bird, MSR's lightest ice axe, is designed for the weight-conscious backpacker or for light mountaineering. This model has many of the fine features of the steel head Thunder-

Ice Axe Guards

#12-152 Spike Guard (also Eagle Pick), 1 ea.
#12-153 Pick Guard (T-Birds only), 1 ea.
#12-154 Adze Guard (Fox All), 2 ea.
(No pick guard for Summit)

*Not designed for ice climbing or for sustained step chopping in hard ice.

bird but it is one half pound lighter. The pick of the Aluminum T-Bird has no teeth and is reinforced with a hardened steel insert. Complete with glide ring and wrist loop.

#12-300, 1 lb 4 oz., 80 cm Axet
Available in sizes 85 cm - 95 cm; 3 cm - 10 cm

ABOUT THE MSR ICE AXE

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Boot-axe belays, crevasse rescue, self arrest—ice axes are tools for safety and failure can be disastrous. MSR designed its axes with this in mind. All MSR Ice Axes have aircraft aluminum shafts with a test strength of 1100 lbs. (2.5 times greater than wood shafts). Overload the MSR Ice Axe shaft and it will bend, not break. The picks on **MSR Axes have positive clearance** which causes them to bite into the surface when pressure is applied (see diagram). The advantage of positive clearance can be demonstrated by dragging an axe with negative clearance over hard snow or ice. It will skid across the surface, chattering and bouncing. Drag an MSR Axe over the same surface. It will furrow itself in.

The hooking angle of a pick (see diagram) is an important factor in determining how well an axe will dig into hard snow and ice in self arrest. Extensive testing has shown that the 68° hooking angle of our Thunderbird and Eagle Ice Axes gives the optimum amount of stopping power required by the average user. The 55° hooking angle of the Sumner is intended for ice climbing.

A combination of positive clearance and hooking angle gives our axes far better stopping capability than many other axes.

All of the steel heads and adzes (regular Thunderbird, Eagle and Sumner) are made from Chrome Moly 4130 plate. The complete heads are heat treated and quenched in oil for strength and ductility to avoid brittle fracture. The Aluminum T-Bird head is stamped from 6061 T-6 aluminum plate and a hardened steel pin is press fit and epoxied to the tip of the pick.



EAGLE

The versatile Eagle is popular for both general mountaineering and hard snow and ice climbing. For easier ice penetration, it features a narrow, hollow ground pick with an 8° cleaving angle. Teeth machined into the pick give addi-

THUNDERBIRD

One of the most popular ice axes in the world, a standard of comparison. Numerous features make it ideal for general mountaineering. The positive clearance pick and 68° hooking angle together provide superb self-arresting capabilities and the Chrome Moly steel head features a fluted adze



SUMNER

This excellent ice climbing tool was designed for the demanding technical climber. The lower edge of the Sumner pick has a hooking angle of 55°. The upper edge is designed to correspond to the arc of the average arm swing. The pick is thinner and the cleaving angle narrower than the Thunderbird for easy penetration and less fracture of ice. The pick is designed so that the axe (and the climber) are supported at the deepest point of the hole. The cutting edge of the adze



tional holding power in hard snow and ice. If you climb in a variety of terrains, the Eagle is a good choice. It comes complete with glide ring and wrist loop.

#12-400, 1 lb., 12 oz., 68 cm. Axe
Available in sizes 65 cm - 95 cm; 5 cm. long/10 1/2 in.



to aid in chopping steps. Teeth are machined into the pick for improved holding power in hard snow and ice. Complete with glide ring and wrist loop.

#12-200, 1 lb., 12 oz., 68 cm. Axe
Available in sizes 65 cm - 95 cm; 5 cm. long/10 1/2 in.



is flat and straight to fracture ice cleanly. The chisel spike is useful when climbing steep terrain and aids in augering holes in boot-axe belays. 1/4" dia. rope thong incl.

#12-400, 1 lb., 12 oz., 68 cm. Axe
Available in sizes 65 cm - 95 cm; 5 cm. long/10 1/2 in.

CLIMBING HELMET



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MSR CLIMBING HELMET

A helmet that offers the protection and comfort demanded by the rigors of climbing, that's the MSR Climbing Helmet. The LEXAN® polycarbonate shell, along with three different kinds of foam padding, gives an excellent combination of strength, penetration resistance and shock absorption. A 1/4" brim around the perimeter of the helmet greatly increases side-to-side rigidity and keeps the head further from the rock in the event of a fall. MSR recognizes that the best of helmet protection is valueless if the helmet falls off your head, so our chin and nape strap is designed to keep the helmet on even in the most serious of falls. Twelve ventilation holes and a spongelike comfort/sweatband aid in keeping the wearer's head cool and comfortable. The MSR Climbing Helmet comes in four sizes and includes self-adhesive foam sizing tape to provide just the right fit. #11-100, small and medium helmets weigh 1 lb., 2 oz.; large and extra large helmets weigh 1 lb., 4 oz.

Climbing Helmet Sizing Chart

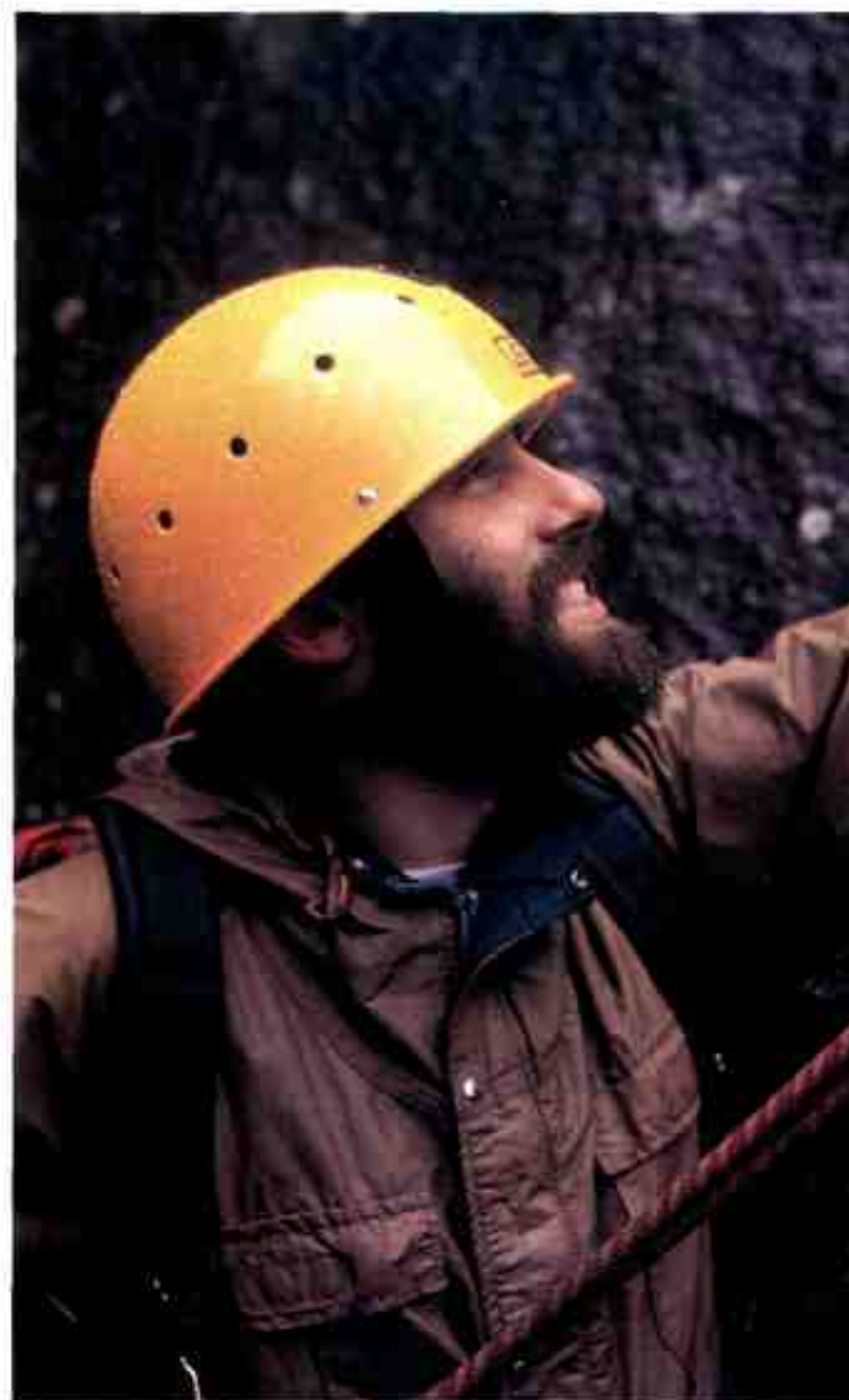
Head Circumference in inches			
22	23	24	25
small	medium	large	x-large

FREE REPLACEMENT

MSR will replace, free of charge, any of our helmets that have been in an accident, in exchange for the helmet and an account of the accident. Thus the wearer will always have the protection he deserves and MSR gets the data we desire.

Climbing Helmet Accessories

Sweatband #10-030, 1 oz.
Foam Sizing Tape #10-003, 1 oz.



BICYCLING HELMET



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MSR BICYCLING HELMET

MSR's bright new idea! **Bright means visible** to motorists and that means avoiding accidents before they happen. The new idea? a helmet liner combined with comfort and sizing pads that absorb shock over a wide range of forces; the minor bumps, the major impacts, even tumbling falls. Ventilation channels in the liner corresponding to ten separate ventilation holes gives the MSR Bicycling Helmet **excellent cooling characteristics**.

The shell, made of LEXAN® polycarbonate by GE is found to have an **excellent combination of abrasion and crack resistance** and light weight. In conjunction with the shell design, LEXAN® provides good side-to-side rigidity.

A chin strap and nape strap system with steel D-ring fasteners keeps the MSR Bicycling Helmet on even in a tumbling fall where multiple impacts can occur. The

raised front brim allows the bicyclist to have good vision when riding head down. Attractive, reflective striping also enhances the helmet's visibility. All of these features mean the MSR Bicycling Helmet fits the needs of recreational, commuter, touring and racing bicyclists.

MSR will replace, free of charge, any of our helmets that have been in an accident, in exchange for the helmet and an account of the acci-

dent. This insures that the wearer will always have the protection he deserves and gives MSR the data we desire.

Bike Helmet Accessories

MSR Bicycling Helmets include comfort pads and sweatbands available in various sizes for proper fit. These can be purchased separately.

Bike Helmet Sizing Chart

Head Circumference in inches				
<20	20-21	21-22	22-23	23-25 1/4
x-small	small	med.	large	x-large
11-006	11-007	11-008	11-009	11-010



HEADLAMPS



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ROOSA-LITETM HEADLAMP

New from MSR! We are proud to announce this fine addition to our line. The Roosa-LiteTM is a sturdy, lightweight headlamp designed for activities that require free hands. Features:

- Large on/off switch—easy to use even while wearing mittens.
- Comfortable, adjustable headband. Can be worn on your head or on a helmet.
- Single cell unit uses a long lasting size "D" lithium cell (sold separately, page 11) attached to the headband for convenience.
- Four cell unit uses either 4 standard batteries (alkaline or carbon zinc) or 2 lithium cells with two "dummy" cells. The battery pack is carried in your coat pocket.
- Durable construction.
- Spare bulb storage inside lamp (spare included).

#26-247, Sgl. w/o cell, 8 1/2 oz.
#26-249, 4 cell w/o cells, 9 oz.

MSR/EVEREADY HEADLAMP

Lightweight and versatile. Casts a bright beam and uses the powerful, long lasting lithium cell (see page 11). The aluminized reflector fits a variety of pre-flanged bulbs with a wide range of candlepower (see bulb usage chart). The on/off switch is conveniently located just below the lamp. An elastic headband holds the lamp in place, and we have added extra padding behind the switch plate for greater comfort. The battery pack for the single cell unit is mounted on the headband. The double cell unit provides even more power for brighter light. The double battery pack is carried in a parka or shirt pocket.

Both the single and double battery pack headlamp systems are available either with or without the cells. When purchased without the cells, a PR-13 bulb is provided. When purchased with the cells, an assortment of bulbs with various candlepowers is included.

BULB USAGE CHART

Using one size "D" Lithium Cell:

Candle Power	Bulb Life (hrs)	Cell Life (hrs)	Bulb #	Order #
0.1*	200	120	PR395	26-246
0.25*	45	55	PR9	26-252
0.45**	10	25	PR6	26-291
0.6**	5	20	PR4	26-290
1.2***	5	14	PR2	26-289

Using Two Size "D" Lithium Cells:

Candle Power	Bulb Life (hrs)	Cell Life (hrs)	Bulb #	Order #
2.2***	60	27	PR12	26-243
2.6***	11	13	PR15	26-295
3.1***	5	14	PR13	26-294

* when less light is needed, such as in camp.
** most applications, such as following a trail.
*** For situations demanding extra light, such as following unmarked climbing routes.

#26-200, Sgl. Headlamp (w/o cell, bulb), 5 oz.
#26-240, Sgl. Headlamp (w/cell, bulb), 8 oz.
#26-241, Dbl. Headlamp (w/cell, bulb), 12 oz.
#26-242, Dbl. Headlamp (w/o cell, bulb), 7 oz.
#26-236, Sgl. Batt. Pack (w/cell), 5 oz.
#26-225, Sgl. Batt. Pack (w/o cell), 2 oz.
#26-239, Dbl. Batt. Pack (w/cell), 9 oz.
#26-226, Dbl. Batt. Pack (w/o cell), 3 1/2 oz.

LITHIUM CELLS



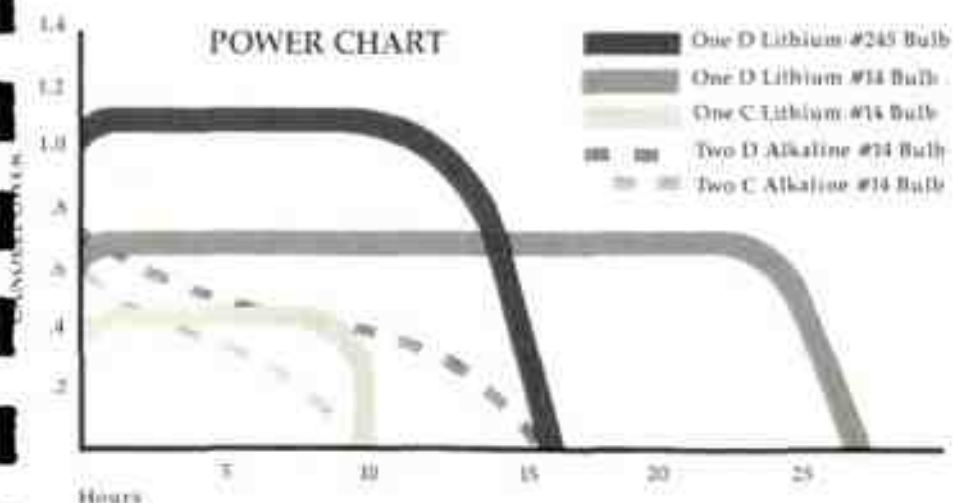
11

LITHIUM CELLS

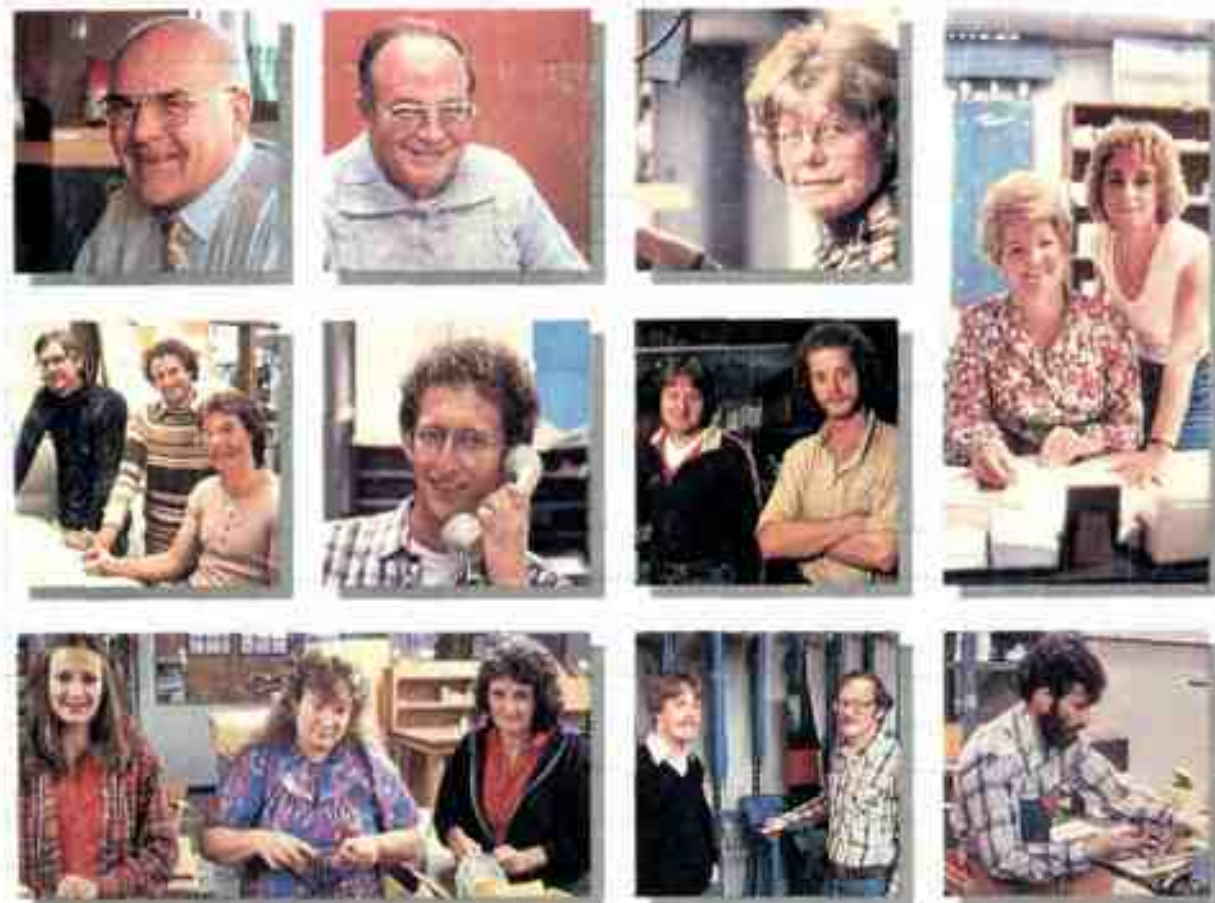
The Eternacell® lithium battery provides long life and consistent performance plus has a higher voltage than conventional batteries. One "D" lithium cell, weighing 2.8 oz. will give you as much light as 4 alkaline cells weighing 4.4 oz. each. The lithium cell comes in size "C" and size "D". A single lithium cell used in a conventional flashlight—along with a light-weight, economical dummy cell—will provide the same brightness as two alkaline or carbon zinc batteries, but with much greater life and less weight.

- Twice the voltage of regular cells: lithium cells, 2.7 volts; alkaline and carbon zinc 1.35 volts.
 - Maintains 96% of operating capacity at 20°F compared with 15% for alkaline.
 - Maintains 85% of operating capacity at -20°F compared with 0% for alkaline.
 - Operates at constant output over 90% of its life. Alkaline cells begin fading almost immediately.
 - Hermetically sealed. Built-in expansion chamber to prevent leakage of sulfur dioxide gas.
- #26-208, Dummy Cell, C Size, 1/10th oz.
 #26-218, Dummy Cell, D Size, 1/10th oz.
 #26-218, C Size, 1 1/2 oz.
 #26-219, D Size, 2 1/2 oz.

- Weighs 3 ounces including sturdy carrying case.
 - Fits over regular eyeglasses.
 - Tinted side shields to protect from peripheral sun and wind.
 - Available with either grey or green lenses.
 - Ample air circulation to minimize fogging.
 - Compact size—carry a spare.
 - Retail for under \$4.00.
- #6214, Green, 3 oz. #6215, Grey, 3 oz.



LEXAN SUNGLASSES



MSR



INNOVATIVE ENGINEERING OF ADVANCED PRODUCTS FOR MOUNTAINEERS, BACKPACKERS, AND BICYCLISTS.

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Mountain Safety Research
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 USA

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 PACSNC LA 43740

PRICE LIST

EFFECTIVE 1 JANUARY THROUGH 31 JULY 1981

STOVES, PARTS & ACCESSORIES

22-101 Model G Stove	\$64.75
22-102 Model G/K Stove	69.75
22-052 Stove Stuff Sack	4.30
22-129 Maintenance Kit ✓	4.95
22-130 Spare Part Kit	4.95
23-021 Blackened 3 Quart Pot ✓	5.49
23-042 Aluminum Pot Lid 9" ✓	1.30
23-100 Aluminum Cup	1.25
23-104 Pot Lifter ✓	1.99
22-217 Filter Funnel	2.30
22-103 Cable & Jet Tool	.75
22-104 G Cable	5.90
22-105 G/K Cable	6.50
22-106 Flame Spreader	.69
22-107 G Jet	1.20
22-108 Sparkar	3.29
22-109 Sparkar Spring	.20
22-110 Pump	16.85
22-111 Jet Cleaning Wire	.55
22-113 Burner Model G	36.35
22-114 Burner Model G/K	42.85
22-115 K Jet	1.20
22-120 Windscreen/Heat Reflector Set	3.29
22-121 Windscreen only	2.69
22-122 Heat Reflector only	.89
22-126 Package of Surge Dampers (4)	.75
22-131 1 oz. Poly Bottle	.55
23-032 4" Simmering Lid	.15

ICE AXES & ACCESSORIES

12-200 Thunderbird Ice Axe	74.95
12-300 Aluminum Thunderbird Ice Axe	64.95
12-600 Eagle Ice Axe	69.75
12-400 Sumner Ice Axe	79.95
12-151 Glide Ring & Wrist Loop	4.00
12-152 Spike Guard	1.45
12-153 Pick Guard	1.45
12-154 Adze Guard	1.45

HELMETS & ACCESSORIES

11-100 Climbing Helmet	39.95
11-000 Bicycling Helmet	38.75
10-018 Reflective Tape Red (1')	.75
10-019 Reflective Tape Silver (3')	.99
10-021 Foam Sizing Tape	1.35
10-030 Sweat Band	.99

LIGHTING SYSTEMS & ACCESSORIES

26-200 Eveready Headlamp single	\$19.95
Battery Pack w/o cell or bulb	
26-240 Eveready Headlamp single	30.95
Battery Pack w/cell & bulb	
26-241 Eveready Headlamp double	46.95
Battery Pack w/cells & bulbs	
26-242 Eveready Headlamp double	24.95
Battery Pack w/o cells or bulbs	
26-225 Single Battery Pack w/o cell	6.49
26-226 Double Battery Pack w/o cell	9.99
26-238 Single Battery Pack with cell	18.49
26-239 Double Battery Pack with cell	33.89
26-218 Lithium Cell "C" FS	11.95
26-219 Lithium Cell "D" FS	12.95
26-208 Dummy Cell "C"	.59
26-216 Dummy Cell "D"	.59
26-289 PR-2 Bulb	.40
26-290 PR-4 Bulb	.40
26-291 PR-6 Bulb	.40
26-292 PR-9 Bulb	.50
26-293 PR-12 Bulb	.40
26-294 PR-13 Bulb	.40
26-295 PR-15 Bulb	.50
26-296 PR-395 Bulb	1.00

HARDWARE

6042 Rescue Pulley	5.95
4201 Lock Link	8.95
6040 Snow Shovel	29.95
6031 Snow Flake 5 x 10	14.95
6032 Snow Flake 8 x 12	15.95
6001 Avalanche Probe 2' Section	6.40
6002 Avalanche Probe 3' Section	6.95
6004 Avalanche Probe Point	2.95
6008 Probe Carrying Sack 2'	5.95
6010 Probe Carrying Sack 3'	6.95
12-160 3' Probe Set	35.45

MISCELLANEOUS

6214 LEXAN Sunglasses Green w/case	3.25
6215 LEXAN Sunglasses Grey w/case	3.95

BOOKS

16-191 Mountain Medicine & Physiology	3.95
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Prices may be subject to change without notice. We reserve the right to remove any items from the catalog at any time.

MSR Firefly Stove System

Compact, Fully Adjustable, Durable

MSR Firefly Stove System

When you expect more from a stove, count on MSR for innovation and performance. The Firefly is among the most compact and lightweight stoves on the market, perfect for backpacking, bicycle touring and climbing. Developed by climber/physicist Bill Sumner, the Firefly burns white gas and has a unique and stable leg configuration which supports large pots with ease. As efficient as the MSR X-GK Stove, the Firefly works on the same pump/fuel bottle system with a flexible fuel tube. The optional hanging system allows the stove to be suspended for even greater versatility.

Fully Adjustable from Roar to Simmer

Many stoves are great at boiling water, but try to simmer a sauce and watch out. The pan bread burns, the corn overcooks and dinner's an unappetizing mess. This won't happen with the versatile Firefly. It throttles impressively low; lets you try the mountain trout to perfection. When you need hot water fast, just turn the heat up: trusty Firefly boils one quart of water in three minutes.

Light and Small for Easy Carrying

Because of its unique leg configuration, the Firefly folds to 2 1/4" x 6" x 4 1/4", about the size of a paperback book. It weighs just 15 oz. with pump, but is as powerful and efficient as stoves weighing twice as much.

MSR Quality

Built for years of rugged use, the Firefly is made of solid stainless steel, brass, and a special aluminum alloy. As with all MSR products, we guarantee exceptional reliability and durability.

Firefly Stove System Includes:

Burner assembly, pump assembly, wind screen and instructions. Fuel bottle (not included) can be purchased separately. Note: Pump assembly is interchangeable with other MSR stoves; current MSR stove owners may purchase the Firefly without the pump assembly.



Stove Specifications

Weight: 15 oz. (with pump). Burning Time: 1 1/2 hours (with 12 oz. fuel). Maximum Output: Boils one quart water in three minutes. Folded Size: 2 1/4" x 6" x 4 1/4". Field maintainable. White gas only.

A. Suspension System

Extremely valuable when conditions or activities hinder or prevent you from using the Firefly on the ground. Great for bivouacking! The system contains a fuel bottle suspension set, a Firefly burner suspension assembly, and instructions for use. Made of durable, rust-resistant stainless steel. Note: Do not hang inside a tent or any enclosed shelter. Weight: 2 oz.

B. Firefly Maintenance Kit

The MSR Firefly Maintenance Kit (purchased separately) supplies you with all the tools and spare parts you can reasonably be expected to need in the field. They include:

- 1 Jet Cleaning Wire
- 1 Fuel Tube (6")
- 2 Fuel Tube Clamps
- 1 Burner Valve "O" Ring
- 1 Fuel Tube "O" Ring
- 1 Pump Control Valve "O" Ring
- 1 Packet Lubricant
- 1 Set Screw
- 1 Jet Removal Tool
- 1 Allen Wrench
- 1 Instruction Sheet

Weight: 1 oz.

C. Stove Stuff Sack

Envelope-style stuff sack of durable, coated, 200 denier oxford nylon protects stove while packing or storing, and protects other gear from stove dirt or grime. Color: Blue. Size: 7 1/4" x 8 1/4". Weight: 0.25 oz.

MSR Cookware System

(not shown) Designed specifically to fit MSR stoves, but may be used for most backpacking and mountaineering stoves. Includes a two quart and a three quart pot, lid, pot lifter and stuffie bag. Pots nest inside each other to make a neat, compact, easy to carry system. Constructed of durable, lightweight aluminum. Stuffie bag is made of coated nylon with toggled drawstring.

MSR X-GK Stove System

On countless high-altitude expeditions around the world, from the Arctic to the Himalayas, the X-GK Stove is preferred by outdoor adventurers who need a versatile, compact and maintainable stove that won't fail in brutal conditions.

The stove was originally developed for climbers who needed to melt snow for water in the fastest possible time. Since the first model appeared, improvements have been made, resulting in a stove that puts forth tremendous heat when needed, and also throttles low for simmering.

We believe the X-GK Stove System to be the finest backpacking and mountaineering stove available. Speed, efficiency, versatility, flame control, stability, compactness and light weight are all found in this impressive system.

Fast and Efficient

With no wind, it takes the X-GK three and a half minutes to boil water, slightly faster than several well-known stoves on the market. However, the time required for the X-GK to boil water in windy conditions is so short, no other stove can compare under test conditions. With an eight m.p.h. wind, the X-GK boiled water in only four minutes; several other stoves tested required two to three times that duration. Starting the stove in the worst conditions is quick and easy, too. An integral sparker means no singed fingers or fumbling with wet matches.

Versatile, Maintainable

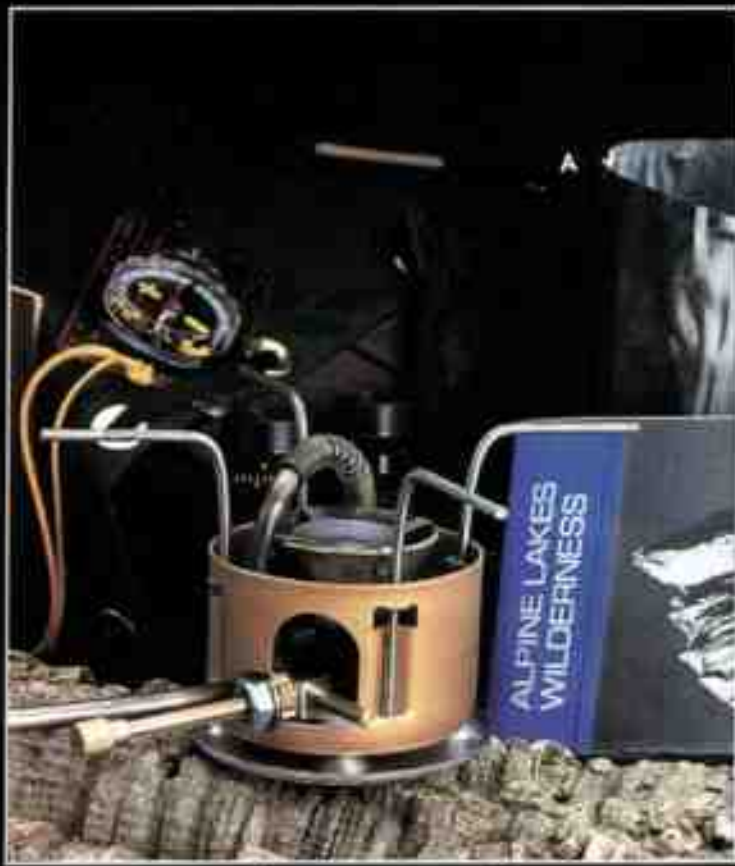
The X-GK is the only stove that burns so many different types of fuel, an important consideration when traveling in out-of-the-way places. Because it can be disassembled and cleaned, the X-GK will burn leaded or unleaded gasoline, aviation fuel, kerosene, Blodgett Solvent, #1 diesel or #1 stove oil. (In a bind, almost any liquid fuel will work.)

Stable, Compact and Lightweight

With the fuel bottle on its side, it is next to impossible to kick the X-GK Stove over — important when cooking in a cluttered tent. The fuel flask separates from the stove for easy packing, and there's no pouring of fuel from additional flasks into the stove. The entire system, without fuel flask, weighs only one pound.

Warning

Do not use gasoline in a tent; an explosive atmosphere may result. We recommend against cooking in a tent; but, if you have no choice, use kerosene in an X-GK because it is far less volatile.



The X-GK Stove System Includes:

Burner assembly, fuel pump, wind screen, heat reflector, aluminum cup, 1 oz. plastic bottle, maintenance tools, and instructions. Fuel bottle (not included) can be purchased separately. Weight: 1 lb.

Accessories Can Be Purchased Separately

A. X-GK Wind Screen

This sturdy aluminum cylinder dramatically increases stove and fuel efficiency. Weight: 2 oz.

B. Heat Reflector

Durable, aluminum donut placed around burner efficiently directs heat. Weight: 0.5 oz.

C. X-GK Maintenance Kit

Parts for field repair of the X-GK Stove. Includes retainer rings, leather pump cup, jet cleaning wire, jet and cable tool, fuel tube "O" rings, flame spreader, control valve "O" ring, sparker springs, pan wires and instructions. Weight: 1 oz.

GK Maintenance Kit

(not shown) Parts for repair of models G and GK. Includes surge dampers, retainer rings, leather pump cup, jet cleaning wire, jet and cable tool, fuel tube "O" rings, flame spreader, control valve "O" ring, sparker springs, pan wires and instructions. Weight: 1 oz.

D. Aluminum Cup

Holds 13 fluid ounces. Use as a cover over burner unit. Weight: 1 oz.

Plastic Bottle

(not shown) For carrying white gas or alcohol as pre-heat fuel when burning kerosene. Weight: 1 oz.

E. MSR Fuel Bottle

Heavy-duty aluminum bottle for use as stove tank or additional fuel carrier. Capacity: 22 fl. oz. Weight: 4.5 oz.

F. Companion Pour Spout

Finger controlled, made of molded plastic. Weight: 5 gm.

G. Jet and Cable Removal Tool

Removes and replaces jet and fuel tube cable. Weight: 3 gm.

Pot Lifter

(not shown) Keeps fingers from getting cooked, too. Weight: 2 oz.

H. Stove Stuff Sack

Fits X-GK Stove System. Weight: 1 oz.

J. Deluxe Stuffie Bag

Fits X-GK Stove System. Cordura® nylon with zip opening and inside pocket. Weight: 3.5 oz.

4" Simmering Plate

(not shown) Enables models G and GK to simmer. Weight: 1 oz.



Mountain Safety Research
P.O. Box 3978, Terminal Station
Seattle, WA 98124 USA
(206) 624-8573