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# SCIENCE NEWS LETTER

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**Collecting—Net Wings**

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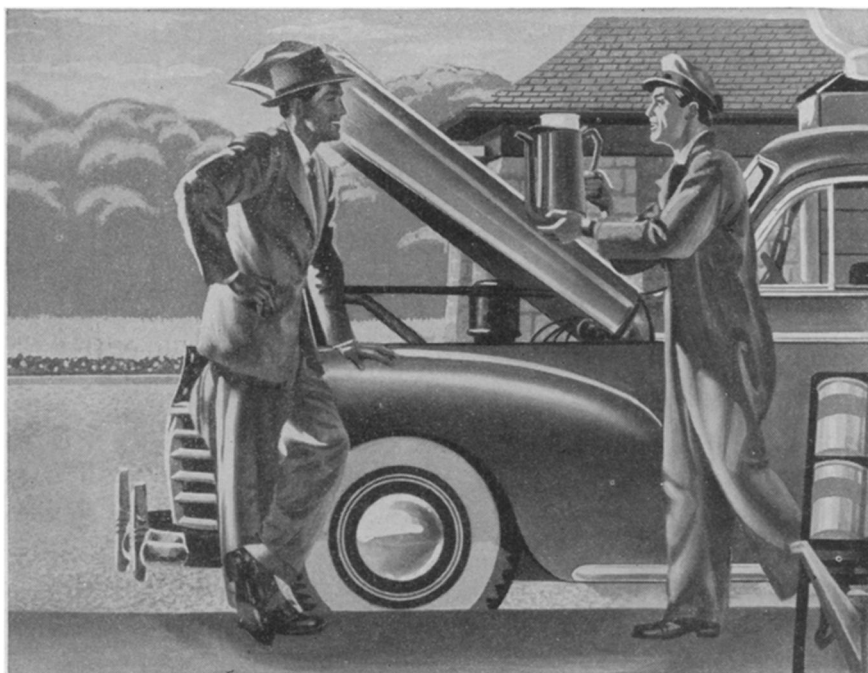
# In motor oil



## Chemistry starts



## where nature stops



If you use oil containing Monsanto additives to make it flow freely in cold weather, your motor "turns over" quickly when you step on the starter. Proper lubrication begins when the motor starts—moving parts are adequately protected.



Monsanto additives give gear lubricants the ability to ease the shock of sudden starts and stops. If gears weren't properly cushioned with a chemically protected lubricant, these shocks could easily destroy gears and cause serious accidents and damage.

Constant improvements in motor design call for greater improvements in motor oils. That's where chemistry starts—bringing to nature's fine oils that extra "premium" quality needed to meet the severe demands of more powerful modern motors.

In blending their premium-quality motor oils, many oil companies use Monsanto lubricant "additives." In a sense, these chemicals are the vitamins of oil technology. They add to even the best natural oils a greater ability to guard against damage to bearing surfaces . . . eliminate power losses . . . reduce the formation of destructive carbon . . . suspend sludges, so they drain away when oil is changed. In a new car, or one that's not so new—in tractors, trucks, buses, Diesels—addi-

tive oils mean livelier, smoother power, more protection, longer motor life and fewer repairs.

Premium-quality oil is ready now—because the petroleum industry, like many another, looks to Monsanto for product improvement through chemistry.

**MONSANTO CHEMICAL COMPANY**  
St. Louis 4

District Offices:  
Akron, Birmingham, Boston, Charlotte, Chicago, Cincinnati, Dayton, Detroit, Los Angeles, Montreal, New York, San Francisco, Seattle, Springfield, Toronto.



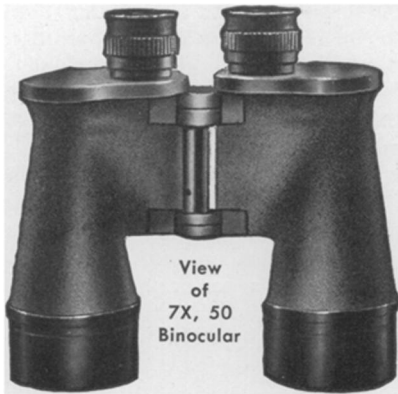
### What's YOUR Problem?

Besides making many contributions to the vast petroleum industry, Monsanto Chemicals serve extensively in the broad field of transportation—automotive, rubber, railroads, utilities. Whatever your problem, take it to Monsanto—where hundreds of chemicals and plastics add many economies and improvements in the daily operations of industry.

**SERVING INDUSTRY... WHICH SERVES MANKIND**

# WAR BARGAINS in LENSES and PRISMS

## NOW! MAKE YOUR OWN BINOCULARS!



Sorry! No more machined sets of 7X, 50 Binocular Metal Parts. We do have unmachined left and right body and cover plate castings . . . but no other parts.  
 Stock # 820-Q ----- \$2.50 Postpaid

### COMPLETE SET OF LENSES AND PRISMS FROM NAVY'S 7X, 50 MODEL

SAVE UP TO \$150.00!

Here's an unusual opportunity to secure a fine set of Binoculars . . . at a tremendous saving of money. Build them yourself with all of the very same optics contained in the Navy's 7 Power Glasses . . . the Binoculars which received such wide acclaim during the war. If, however, you wish to construct a Monocular (1/2 a Binocular) you may do so. Monocular Sets comprise 1/2 quantities of the same optics required for the Binocular. The full Binocular Set comprises the following:—2 Cemented Achromatic Eye Piece Lenses, 17.5 mms. diam.; 2 Eye Field Lenses; 4 Porro Prisms; 2 Cemented Achromatic Objective Lenses, diam. 52 mms. All Lenses have the new low reflection coating. Complete assembly directions included.

Stock # 5102-Q Binocular Set of Lenses and Prisms \$25.00 Postpaid  
 Stock # 5103-Q Monocular set of Lenses and Prisms \$12.50 Postpaid

All items Finely Ground and Polished, some Edges Slightly Chipped or Other Slight Imperfections Which We Guarantee Will Not Interfere with Their Use. Come Neatly Packed and Marked.

TO KEEP POSTED on all our new Optical Items, send 10c and your name and address to get on our regular "Flash" mailing list.

### GIANT SIZE RED AND AMBER FILTERS

Filter material is cemented between glass. All 3/8" thick.

Stock #	Color	Diam.	Price
706-Q	Red	7-7/8"	\$4.00
707-Q	Red	5-7/8"	3.00
708-Q	Amber	7-7/8"	3.00
709-Q	Amber	5-7/8"	2.00

**POLARIZING FILTER**—Diam. 73 mm. Perfect condition.  
 Stock # 637-Q ----- \$3.00 Postpaid

### MOUNTED PROJECTION LENS

A mounted f 2.1; 3.5 inch F.L. Projection Lens mfgd. on a Navy contract to be used on a 35 mm. Projector. Low reflection coated. Perfect condition. Black finish threaded at rear end. Outside diam. approx. 2 inches.  
 Stock # 4031-Q ----- \$12.00 Postpaid

**35 MM KODACHROME PROJECTING LENS SET**—Consists of 2 Achromatic Lenses for projecting, plus 2 Condensing Lenses and a piece of Heat Absorbing Glass with directions.  
 Stock # 4029-Q ----- \$3.10 Postpaid

**35 MM. KODACHROME PROJECTING LENS SET**—Consists of Achromatic Lens for projecting, plus a Condensing Lens and a piece of Heat Absorbing Glass with directions.  
 Stock # 4025-Q ----- \$1.95 Postpaid

### MISCELLANEOUS ITEMS

Stock No.	Item	Price
3006-Q	Porro Abbe Prism	\$0.25 each
2024-Q	10 Pieces Circular A-1 Plate Glass (Dia. 31 mm.—for making filter)	.25
3021-Q	Amici Roof Prism (3rd grade)	.25 each
523-Q	Six Threaded Metal Reticle Cells	.25
624-Q	Neutral Ray Filter size 4 3/4" x 2 1/2"	.25
3022-Q	Round Wedge 65 mm. dia.	5.00 each
16-Q	Level Vial, 48 mm. long	.20 each
1040-Q	6 Power Magnifier—diam. 25 mm.	.25 each
2043-Q	Standard Crossline Reticle—diam. 29 mm.	.50 each
1034-Q	Burning Glass Lens	.25 each
535-Q	Small First Surface Mirror	.30
3003-Q	Amici Roof Prism with Corrected Roof	2.50
633-Q	Combination Polarizing and Infra-Red Filters, diam. 20 mm.	.50

(Minimum Order on Above—\$1.00)

### TANK PRISMS—PLAIN OR SILVERED

90-45-45 deg. 5 3/4" long, 2 1/2" wide, finely ground and polished

Stock No.	Item	Price
3004-Q	Silvered Prism (Perfect)	\$2.00 Postpaid
3005-Q	Plain Prism (Perfect)	\$2.00 Postpaid
3100-Q	Silvered Prism (Second)	\$1.00 Postpaid
3101-Q	Plain Prism (Second)	\$1.00 Postpaid

(Illustrated Book on Prisms included FREE)

**BATTERY COMMANDER'S TELESCOPE, MODEL BC-65**—Complete with Tripods—10 power. New, in perfect operating condition. A Binocular type instrument. Government cost approx. \$1300.00.  
 Stock # 900-Q ----- \$245.00 Postpaid

### SPECIALS IN LENS SETS

Set #1-Q—"Our Advertising Special"—15 lenses for \$1.60 Postpaid, plus 10-page idea booklet. For copying, **ULTRA CLOSE-UP SHOTS**, macrophotography, experimental optics, magnifying and for making a two power f/16 Telephoto Lens, "Dummy Camera," Kodachrome Viewer, **DETACHABLE REFLEX VIEWFINDER** for 35 mm. cameras stereoscopic viewer, ground glass and enlarging focusing aids, **TELESCOPES**, low power Microscopes and for many other uses.

### NEW 50-PAGE IDEA BOOK "FUN WITH CHIPPED EDGE LENSES"

Contains wide variety of projects and fully covers the fascinating uses of all Lenses in set listed above . . . only \$1.00 Postpaid.

**SPECTROSCOPE SETS** . . . These sets contain all Lenses and Prisms you need to make a Spectroscope plus **FREE** 15-page Instruction Booklet.

Stock # 1500-Q Hand Type Spectroscope ----- \$3.45 Postpaid  
 Stock # 1501-Q Laboratory Type Spectroscope ----- \$6.50 Postpaid

**POLARIZING RING SIGHT** (Something New in Optics)—Utilizes the interference pattern created by a basal section of calcite or sodium nitrate crystal between crossed polarizers. Diam. 32 mms.—Thickness 7 mms.  
 Stock # 2067-Q ----- \$2.00 Postpaid

**CARRYING CASE WITH STRAPS FOR 7X, 50 BINOCULARS**—All leather construction—brand new—a regular \$10.00 value.  
 Stock # 44-Q (Price includes tax) ----- \$4.80 Postpaid

**SECONDS IN PLANO-CONVEX CONDENSING LENSES.**  
 Stock # 1068-Q Diam. 4-7/16", F.L. 6-1/2"—70c each Postpaid

**ACHROMATIC TELESCOPE OBJECTIVE LENSES**—Cemented—Diam. 52 mm., F.L. 8 1/2 inches. Slight seconds.  
 Stock # 6188-Q ----- \$3.50 Postpaid

**NEW PROJECT BOOK—HOMEBUILT RIFLE-SCOPES**—30c Postpaid. List of available Rifle Scope Lenses sent **FREE** with book.

**RAW OPTICAL GLASS**—An exceptional opportunity to secure a large variety of optical pieces, both Crown and Flint glass (seconds) in varying stages of processing. Many prism blanks.

Stock # 703-Q 8 lbs. (Minimum weight) ----- \$5.00 Postpaid  
 Stock # 702-Q 1 1/2 lbs. ----- \$1.00 Postpaid  
**MAGNIFIER SET**—5 magnifying Lenses—Powers from 1 to 10.  
 Stock # 1026-Q ----- \$2.00 Postpaid  
**RETICLE SET**—5 assorted, engraved reticles from U. S. Gunsights.  
 Stock # 2035-Q ----- \$1.00 Postpaid

ORDER BY SET OR STOCK NO.

### ACHROMATIC LENSES

Stock No.	Dia. in mms.	F.L. in mms.	Price
6158-Q*	18	80	\$1.00
6162-Q	25	122	1.25
6164-Q*	26	104	.80
6166-Q	29	54	1.25
6168-Q	29	76	1.25
6171-Q	32	171	1.00
6173-Q*	34	65	1.00
6176-Q*	38	181	1.00
6177-Q*	39	63	1.10
6178-Q*	45	189	1.50
6179-Q*	46	78	1.25
6182-Q	27	51	1.25
6183-Q	44	189	2.50

\* **ASTERISKED ITEMS** are uncemented, but **FREE** cement and Directions included with uncemented sets.

**USES**—Use these Lenses for making Projecting Lenses, Low Power Microscope Objectives, corrected Magnifiers, substitute enlarging Lenses, Eye-Piece Lenses, Macrophotography, Gadgets, Optical Instruments, etc., etc.

### ALL THE LENSES YOU NEED TO MAKE YOUR OWN TELESCOPE! ALL ARE ACHROMATIC LENSES

**GALILEAN TYPE**—Simplest to Make but has Narrow Field of View.

Stock # 5018-Q—4 Power Telescope ----- \$1.25 Postpaid  
 Stock # 5004-Q—Small 2 Power Pocket Scope ----- \$1.00 Postpaid

**PRISM TELESCOPES**—Use Prism instead of Lenses to Erect Image. Have wide field of view.

Stock # 5012-Q—20 Power Telescope ----- \$7.25 Postpaid  
**RIGHT ANGLE PRISM**—Flint Optical Glass, size 41 mm. by 91 mm. by 64 mm. Use in front of camera Lens to take pictures to right or left while pointing camera straight ahead. Also used in front of camera Lens to reverse image in direct positive work. Two of these Prisms will make an erecting system for a Telescope.  
 Stock # 3076-Q ----- \$3.00 Postpaid

**WE HAVE LITERALLY MILLIONS OF WAR SURPLUS LENSES AND PRISMS FOR SALE AT BARGAIN PRICES. WRITE FOR CATALOG "Q"—SENT FREE!**

### PRISMS

Stock No.	Type	Base Width	Base Length	Price
3040-Q	Right Angle	33 mms.	23 mms.	\$ 1.25
3053-Q	Right Angle	70 mms.	168 mms.	3.00
3001-Q	Lens Surface	20 mms.	14 mms.	2.00
3006-Q	Porro-Abbe	9 mms.	9 mms.	.25
3009-Q	Porro	52 mms.	25 mms.	1.00
3029-Q	Dove	16 mms.	65 mms.	1.25
3036-Q	80 Degree Roof	60 mms.	36 mms.	4.00
3038-Q	Roof Prism	18 mms.	34 mms.	2.50

• **SATISFACTION GUARANTEED**

• **IMMEDIATE DELIVERY**

# EDMUND SALVAGE COMPANY, P. O. Audubon, New Jersey