

METAL FINISHING INDEX

Bluing414-420	Parkerizing	421
Color Case Hardening	422	Plating	421

Gun Bluing

WHY GUN BLUING?

No other activity or line of work in a gun shop or sporting goods store teaches the mechanics of a gun better than bluing. To reblue a gun, you have to completely dismantle it piece-by-piece, and each of the hundreds of varieties of guns has its own peculiarities. After you have handled so many guns, the whole theory of a gun's mechanical operation becomes ingrained in your mind, never to be lost. Further, continued handling of the more popular guns soon leads the gunsmith to know, almost automatically and without looking, which parts are worn and need to be replaced.

There is also a money-making feature—not only is bluing fairly profitable, but it also gives the dealer or gunsmith an opportunity to become better acquainted with his shooting customers. Nothing pleases a gunnut more than a gunsmith making his favorite gun look like new. As a result, he is inclined to return to the gunsmith who worked such miracles—for bluing does seem to be magic for the uninitiated. So as sights and scopes, slings and gun cases are needed, the sportsman not only buys from the man who did up his gun, he brings his friends along, too.

The original cost of setting up a bluing shop is not great, nor is it necessary to buy a lot of stuff. Bluing tanks, burners, some bluing salts, cleaner, polish, some wheels—and you're in business. From then on buy as you need. Don't buy unless you do need.

So far as bluing salts are concerned, we make no claim that our salts are superior to anyone else's. We do have Bureau of Standards reports that prove some salts claimed to be as good as ours simply aren't. But let us not kid anybody: there are lots of other bluing salts on the market about as good as ours. We feel we are selling bluing salts to gunsmiths who know their business, to sporting goods dealers and shooters who are past the "sucker" stage. Why should we insult their minds with a bunch of hooey?

The proof of any pudding is in the eating. We guarantee you to be satisfied on a money-back basis. What more should be said?

So, on to business. The quality of a good blue job depends entirely on the gunsmith doing the bluing, not on the salts. If you have a gunsmith who will do a masterful piece of polishing, with all surfaces true and bright, corners sharp, without funneled screw holes or ground-off screw heads—if he is careful to clean the gun properly before bluing—if he will follow the instructions that go with anybody's salts—well, he'll get bluing jobs that are out of this world.

Because of our constant association with many thousands of gunnuts, gunsmiths, gun dealers, and manufacturers in the bluing business, we feel we can give you the service you deserve. If we can't after all these years, better we should go to selling raincoats and straw hats!

Bluing can be fun and profitable—full-time or part-time. Shooters are always looking for gunsmiths who will give them honest work.

BROWNELLS "FIRST STEP" BLUING KIT



A Great Beginning ...

When you're ready to start hot bluing guns with Oxynate No. 7, but not ready to "really" get the whole kit and kaboodle that comes in our Bluing System Kit, this is the Kit for you.

This "First Step" Kit gives you enough equipment and supplies to "begin from", at a price that you can afford to "begin with". Every item was chosen to give you the basics, with the understanding that you would not get all the handy accessories, have to scrounge up some things at your end, and have to make your own tank stands. But, you would get the minimum number of tanks, the Oxynate No. 7 Bluing Salts and other chemicals, plus all the safety gear that you absolutely *must* have to get started. And, our exclusive - and absolutely unique - step-by-step Bluing Instruction Book; 34 pages of the finest bluing information available in the entire industry, worked out over years and years of experience with hot bluing, and the mainstay of thousands of gunshops' bluing success.

If you still have trouble, our full-time Tech Support Staff can help you out plus, there's our uncompromising guarantee: You *will* be satisfied - period.

A brief listing of the products included in the Kit follows. You'll find full descriptions in the next few pages. Save money and time when you buy the "First Step" Kit.

KIT INCLUDES

OXYNATE NO. 7 - (1) 40 lb. pail.

CLEANER - (1) 8 lb. box of Dicro-Clean 909 caustic granules (require an additional hazardous shipping fee) or (1) gallon of non-hazardous, liquid NH-909 that eliminates ONE of the hazardous shipping fees.

BLACK IRON TANKS - (2) Won't contaminate bath. For Cleaning Solution/Hot Water Rinse, and Bluing Solution.

FIBERGLASS TANK - (1) Tough, rigid, gel-coated, fiberglass tank used for Cold Water Rinse.

BLUING TANK PIPE BURNER - (1) Provides correct heat for the Bluing Solution. Both Natural and Propane Gas orifices.

HOT WATER TANK PIPE BURNER - (1) Smaller size for Cleaner/Rinse Tank saves gas. Natural and Propane Gas orifices.

THERMOMETER - (1).

BROWNELLS BLUING INSTRUCTIONS - Explicit, concise, covering every phase of bluing. Including Trouble-Shooting.

WATER DISPLACING OIL - (1) Gallon.

BLUING PARTS BASKET - (1).

BLACK IRON SCREEN WIRE - (1) Sheet.

BLACK IRON WIRE - (1) Roll.

STAINLESS STEEL DIPPER - (1).

TCE DEGREASER - (1) Quart.

FULL FACE SAFETY SHIELD - (1) Helps keep chemical splashes out of face and eyes. ALWAYS wear when bluing.

B-360 RUBBER GLOVES - (1) Pair, size 11.

NEOPRENE SHOP APRON - (1).

3M DISPOSABLE FILTER MASKS - (1) Pak of 10.

#082-000-006AK **First Step* Bluing Kit, with Dicro-Clean 909 2H721X72 . . . \$ 942.99

#082-005-009AK **First Step* Bluing Kit, with NH 909, 2H850U00 1,109.99

*Note: Requires Additional Hazardous Materials Surcharge.

BROWNELLS

ROLL-AROUND BLUING SYSTEM



Unhooks Gunsmiths
From The Gas-Pipe Leash

Compact, portable bluing system lets the pistol-smith, knifemaker, and small parts fabricator choose the most convenient place to do bluing. A perfect way to give your customers the traditional deep blue-black color that comes only from hot salts bluing, without having to dedicate a separate room to bluing. Roll the system out to blue, then roll it out of the way when you're done.

Comes complete with mobile bluing cart, tanks, burners, the necessary chemicals and Brownells clear, concise bluing instructions to walk you through the process. Just add an ordinary gas grill propane tank, a garden hose for the flowing water rinse, and a drain or runoff area. The rugged, welded steel cart moves easily on heavy-duty, locking casters and carries three, 20" x 6" x 6" mild steel tanks. The bottom shelf has an opening to hold the propane tank and extra room to store supplies, or locate the fourth tank for water displacing oil – safely away from the heat source. Braided, stainless steel, flex lines provide easy hookup to propane tank.

SPECS: Cart - Steel, black finish. 33 $\frac{3}{4}$ " long, 25" (63.5cm) wide, 37 $\frac{3}{4}$ " (95.9cm) high. **Tanks** - Black iron, natural finish. 20" (50.8cm) long, 6" (15.2cm) wide, 6" high. **Gas Line**: Braided stainless steel w/brass fittings. 16" (40.6cm) long. **Overall Dimensions** - 33 $\frac{3}{4}$ " (85.7cm) long, 31 $\frac{1}{2}$ " (80cm) wide, 49 $\frac{3}{4}$ " (126.2cm) high. **Weight** - 180 lb. (81.6 kg).

SYSTEM INCLUDES

MOBILE BLUING CART - (1) Includes easy-to-follow assembly instructions.

BLACK IRON BLUING TANKS - (3) For cleaning solution/hot water rinse, bluing solution, and water displacing oil.

BLACK IRON RINSETANK - (1) Dedicated tank includes built-in hose connector for easy attachment to a garden hose.

PIPE BURNER - (2) Complete with brass shutoff valves. Provides correct heat for the bluing solution and hot water tank.

BRAIDED STAINLESS STEEL GAS LINE - 16" long.

OXYNATE® NO. 7 - (1) 40 lb. pail.

909™ CLEANER - (1) 8 lb. container of Dicro-Clean 909™ caustic granules (requires an additional hazardous shipping fee) or (1) gallon of non-hazardous, liquid NH-909™ that eliminates ONE of the hazardous shipping fees.

BLUING SOLUTION CLEANER - (1) Pint. Removes depleted salts and contaminants from the bluing solution.

OXYNATE™ "S" - (1) Pint. Helps ensure good blue-black color on cast iron receivers and other "questionable" steels.

STOP CREEP™ - (1) Bar. Helps prevent cooled bluing solution from "climbing" over the edge of the tank.

THERMOMETER - (2). Made to our specifications to work right. Use with the bluing solution and cleaner tank.

BROWNELLS BLUING INSTRUCTIONS - Explicit, concise, covering every phase of bluing, including trouble-shooting.

WATER DISPLACING OIL - (1) Gallon.

BLUING PARTS BASKET - (1).

SMALL PARTS BASKET - (1).

BLACK IRON SCREEN WIRE - (1) Sheet.

BLACK IRON WIRE - (1) Pak of 3 Rolls.

BROWNELLS

DICROPAN IM®

ONE-TANK KIT



Non-Caustic, Hot Water Bluing Systems
To Help You Begin Or Expand Your Bluing Business

Our One-Tank Kit is perfect for the shop with an existing bluing setup, or the beginner with some ingenuity and a tight budget. All the chemicals are here, and we add a tank, some safety gear, and our detailed instructions. You supply the heat source and a stand for the tank, plus a few other odds and ends. Even better, the price shown represents a savings of more than 15% over purchasing the items individually.

SPECS: Kit contents - Two 16 fl. oz. (473 ml) bottles of Dicropan IM, 8 lb. (3.6 kg) container of Dicro-Clean No. 909™ caustic granules (requires a hazardous shipping fee) OR 1 gallon (128 fl. oz./3.8L) of non-hazardous NH-909™ (eliminates ONE of the hazardous shipping fees), black iron tank, thermometer, two 32 fl. oz. (946 ml) cans of water displacing oil, 14 $\frac{1}{4}$ " x 5 $\frac{1}{2}$ " x 3" parts bluing basket, stainless steel screen wire, roll of black iron wire, 100 ct. gunsmith cleaning pads, #1 steel wool, 32 fl. oz. container of TCE Degreaser, 1 gallon (128 fl. oz./3.8 L) hydrochloric acid, pair of size 11 rubber gloves, neoprene shop apron, full-face safety shield, and complete instructions.

#082-905-105AK *IM "One-Tank" Kit, with Dicro-Clean 909, 2H257A62 \$ 328.99

#082-905-106AK *IM "One-Tank" Kit, with NH-909, 2H311A95 404.99

*Note: Requires additional Hazardous Materials surcharge. Cannot ship outside Continental United States.

YOU CAN SHOP ONLINE TOO!
www.brownells.com
NEW PRODUCTS ADDED DAILY

STAINLESS STEEL DIPPER - (1).

RINSETANK BRUSH - (1).

TCE CLEANER/DEGREASER - (1) Quart.

FULL FACE SAFETY SHIELD - (1) ALWAYS wear when bluing.

B-360 RUBBER GLOVES - (1) Pair, size 11.

NEOPRENE SHOP APRON - (1).

3M DISPOSABLE FILTER MASKS - (1) Pak of 10.

GUNSMITHS DATA BINDER - (1) Organizes and protects instructions and other gunsmith reference materials.

DATA SHEET PROTECTORS - (100) Polypropylene sleeves fit binder above.

#082-900-008AK Roll-Around Compact Bluing System, w/traditional Dicro-Clean 909 Cleaner, 2H1599Z99 \$ 1,899.99

Requires additional Hazardous Materials surcharge.

#082-900-009AK Roll-Around Compact Bluing System, w/non-hazardous NH909 Cleaner, 2H1350Z00 1,599.99

WHICH TYPE OF BLUING SHOULD I CHOOSE?

With so many different types of bluing available, attempting to choose the one most appropriate for your needs can be confusing. Each type has its advantages.

Brownells provides four basic types of bluing; Oxynate™ No. 7, hot salts bluing; Dicropan IM™, a hot water blue; Nitre Blue™ Bluing, a heat blue; Dicropan T4™, Oxpho-Blue™ and 44/40™ cold blues.

OXYNATE™ NO. 7

Our Oxynate No. 7 hot salts bluing is the type most commonly used by firearms manufacturers and offered by more fully equipped gunsmith shops than any other. The advantages are: speed of the operation; uniformity of color; the relative simplicity of the process and a very consistent, durable finish on a variety of different types of steels: one that closely matches the original finish on many of the firearms produced commercially within the last 50 years or so. This is very important, for you can provide your customers a finish they are familiar with and find desirable. Also, hot salts bluing is what most folks expect from a professional gunsmith. And, since it is not normally done by a hobbyist or tinkerer, it is the popularly accepted mark of the professional gunsmith.

To do the finest possible job of bluing with Oxynate No. 7, you'll need to set up a separate room to keep the steam and humidity generated away from tools or guns. You'll also need tanks, stands, burners, safety gear and an adequate source of natural gas, propane or electricity.

DICROPAN IM™

Hot water blues, such as our Dicropan IM, are updated versions of the traditional "rust blues" that took days or weeks to apply. Dicropan IM will provide a very attractive blue/black color and an extremely durable, abrasion resistant finish. It is completely safe to use on soft soldered, double barrel shotguns. Applying Dicropan IM is a very simple procedure and can be done with as little as one tank and a heat source to get the water in the tank boiling. While more labor intensive than Oxynate No. 7™ Bluing, Dicropan IM™ Bluing is an excellent choice for the occasional rebluer or the shop specializing in double barrels.

NITRE BLUE™ BLUING

Bluing can also be done by controlled heating of the part and Brownells NitreBlue is an example of this type of bluing. It is a very old process that was used frequently during the 19th century. The salts liquefy when heated to approximately 275° F. to 300° F. The normal "bluing" temperature is around 600° F. NitreBlue™ Bluing requires very little equipment; the salts, a container to heat them in, and a heat source. By varying the amount of time you submerge your workpiece and the temperature of the liquefied salts, you can obtain colors ranging from the straw found on Luger triggers to the very bright blue found on older Colt revolvers. Because of the high temperatures involved, NitreBlue Bluing should be used on small, non-critical components such as butt plates, grip caps and sights, to avoid changing any heat-treating on action parts.

OXPHO-BLUE™, DICROPAN-T4™, & 44/40™

Cold blues, like our Oxpho Blue, Dicropan T4 and 44/40, are ideal for the hobbyist or for the shop that does only a bit of metal finish touch-up from time to time. No special equipment is required other than a solvent to remove all traces of grease or oil and a swab or cleaning patch to apply the cold blue. There is no danger of rust or damage to other equipment from fumes or high humidity. Cold blues can be used quickly and easily, and the process is fast and very simple.

For more information on any of our bluing products, please call and talk with our Technical Support Staff. All are professional gunsmiths and have many years of "hands on" experience with our bluing products. In addition, we have the most complete Bluing Instruction Booklet in the industry... we will be happy to send it free on request.

BROWNELLS BLUING SYSTEM KIT

41-Piece Kit Gives You Everything You Need To Start Bluing NOW!

- Tanks •
- Stands •
- Burners •
- Chemicals •
- Safety Gear •
- Accessories •

And ... The Best Instructions In The Industry!

"What Do I Need To Start Bluing Of Guns?" Having answered this question literally hundreds of times over the past 55+ years, we've put everything you need in this one complete KIT. **EVERYTHING!** All the basics - Tanks, Stands, Burners, Cleaners, Salts and Oil that the "other guys" sell - PLUS everything else you need to start bluing guns. Solvents, tank covers, personal safety gear, extra additives and lots more. All for just a few dollars more than those "bare bones" kits.

Plus, we include our step-by-step Bluing Instruction Book. 34 pages of the best bluing information available in the Firearms Industry...perfected over the years, helping literally thousands of gunsmiths. They teach you how to blue, and if you have a problem, they explain how to cure it. Unlike others, we back our process with our industry-exclusive, full-time Tech Support Staff of "hands-on" experienced gunsmiths who can help you solve any bluing problem. At Brownells, we're committed to giving you, the working gunsmith, the finest possible service. We guarantee it 100%.

We know you'll find Bluing a rewarding, profitable addition to your shop. Compare our KIT to anybody else's...it is the best buy on the market. So, save yourself time and money trying to make a basic "bare bones" package into a working bluing shop. Order our Bluing System Kit and put that time to work making money bluing guns.

Listed below are all the items in the KIT with a brief description of each. Check and compare this value, to any other kit on the market. And remember, we've got the best Instructions; the ONLY, fulltime Tech Support Staff; 60+ years experience and an Unconditional, Money-Back Guarantee.

KIT INCLUDES

OXYNATE No. 7™ - The finest, most reliable Bluing Salts available. Provides a deep, blue-black color on most gun steels (except stainless). Proven in small shops for over 50 years and used by top firearms manufacturers. (2) 40 lb. pails supplied.

CLEANER - Use in a heated soak tank to remove the dirt and grime from gun steel that can ruin a bluing job. (1) 24 lb. box of DicroClean 909™ caustic, granules (requires an additional hazardous shipping fee) or (1) gallon of non-hazardous liquid NH-909 that eliminates ONE of the hazardous shipping fees..

BLACK IRON TANKS - Won't contaminate your bath. For Cleaning Solution, Cold Water Rinse, Bluing Solution, Hot Water Rinse and Water Displacing Oil. (5) supplied.

BLUING TANK BURNER - Sized to provide correct heat for the Bluing Solution. Orifices included for both Natural and Propane Gas. (1) supplied.

HOT WATER TANK BURNER - As Cleaner and Hot Water Rinse Tanks require less heat, these smaller burners save fuel. Orifices included for Natural and Propane Gas. (2) supplied.

TANK STANDS - Interlock at sides or ends so you can design the layout to fit your shop. (Water Displacing Oil must be located away from rest of Bluing operation). (4) supplied.

THERMOMETERS - Proper temperature control is required for successful Bluing and these are made to our specs to work right. (2) supplied - for Bluing Solution and Cleaner Tanks.



BROWNELLS BLUING INSTRUCTIONS - Continuously updated 34 page book of explicit instructions on every phase of bluing. Includes Polishing, Hot Bluing, Cold Bluing and Exhaustive Trouble-Shooting Charts on the Bluing Process.

WATER DISPLACING OIL - After Bluing and Rinsing, this specially formulated oil seeks out and displaces any remaining molecules of water with molecules of oil. Gives complete protection on all surfaces. (3) Gallons supplied.

TANK COVERS - Keeps unwanted crud out, reduces evaporation in Bluing Solution and Water Displacing Oil Tank during storage. Rubber gasket. (2) Supplied.

BLUING PARTS BASKET - Holds pistol frames, rifle actions and many other parts in the various tanks. (2) Supplied.

SMALL PARTS BASKET - Use alone or inside the Bluing Parts Basket. Holds all but the smallest parts. (1) Supplied.

BLACK IRON SCREEN WIRE - Cut and fold into little baskets for pins and screws. (1) Sheet supplied.

BLACK IRON WIRE - A great help in hanging barreled actions, parts baskets and more in the tanks. 1 pkg. of 3 rolls supplied.

STAINLESS STEEL DIPPER - Used to add water to the Bluing Solution during operation. (1) Supplied.

RINSE TANK BRUSH - Wood handle, natural bristles to make sure cleaner residue is off parts. (1) Supplied.

BLUING SOLUTION CLEANER - Removes depleted salts and contaminants from the Bluing Solution. (1) Pint supplied.

OXYNATE "S"™ - Helps get good blue-black color on cast iron receivers and other "questionable" steels. (1) Pint supplied.

TCE DEGREASER - A superb degreaser that removes gun oils quickly and easily. (1) Gallon supplied.

STOP CREEP™ - Helps prevent cooled Bluing Solution from "climbing" over the edge of the Tank. (1) Bar supplied.

FULL FACE SAFETY SHIELD - Helps keep caustic splashes out of face and eyes. ALWAYS wear when bluing. (1) Supplied.

B-360 RUBBER GLOVES - Industrial-grade neoprene to protect hands. (1) Pair size 11 supplied.

NEOPRENE SHOP APRON - Keeps those inevitable splashes off clothes - and you. Extra long and wide. (1) Supplied.

3M DISPOSABLE FILTER MASKS - Keeps harmful polishing and chemical dust out of lungs. (1) Pak of 10 supplied.

GUNSMITHS DATA BINDER - Heavy, solvent/chemical resistant polypropylene, 3-ring binder protects instructions/gunsmith info. (1) Supplied.

SHEET PROTECTORS - Heavy, 4 mil polypropylene sleeves fit Binder above. Separate Bluing Instructions and put each page in one of these. Easily cleaned off. (100) Supplied.

#082-005-007AK *Brownells Bluing System Kit, with Dicro-Clean 909 2H2199U99 \$ 2,424.99

#082-000-004AK *Brownells Bluing System Kit, with NH-909 2H1893U65..... 2,249.99

*Note: Shipped Truck only. Please call for freight charges. Requires Additional Hazardous Materials Surcharge

BROWNELLS Oxynate® No. 7 HOT CHEMICAL BLUING COMPOUND

MEETS Mil Spec C13924BAM1, Class 1, Grade A

Finest Professional, Gunsmith-Developed, Hot Bluing Salts Available On The Market Today



OXYNATE NO. 7 has been the most popular bluing salts for the professional gun trade for well over 60 years. For quantity work (one to a dozen guns a week or month) the cost per gun is extremely low. Oxynate No. 7 is manufactured by one of the country's chief producers of manufacturer's chemicals and sold by us to the gun trade by exclusive license. This is mentioned so that you'll appreciate the vast research laboratories available to our users of Oxynate No. 7 - and that you are using the best gun blue modern science and research can produce.

Our copyrighted Instructions are, we feel, the most complete offered to the trade. Every step, every complication, every question the gun bluer can encounter is detailed in this booklet. The answers and suggestions are not from any one individual but are those of several thousand gun men who have used Oxynate No. 7 successfully during the past 60+ years.

SPECS: 40 lb. (18.1 kg) net weight can or 400 lb. (181.4 kg) net weight drum. Normal mix is 10 lbs. (4.5 kg) per gallon of water. Full instructions included.

#082-007-140AK *40 lb. Oxynate 7, 2H135U65..... \$ 159.99
— 2 or More — *40 lb. Oxynate 7, per each, 2H118U61..... 151.99

*Note: Standard Ground One-Rate Shipping +\$18. Requires additional Hazardous Materials surcharge.

#082-007-940AK **40 lb. Oxynate 7, 10 or more, per each, 2H103U99..... 129.99

#082-028-400AK **400 lb. Drum Oxy. 7, 2H1199U99..... 1,249.99

**Note: Shipped Truck only. Please call for freight charges. Requires additional Hazardous Materials surcharge.

BROWNELLS OXYNATE® No. 84 HOT CHEMICAL BLUING COMPOUND

For Rebluing Stainless Steels & Cast Iron



A superior formulation for stainless bluing that works on virtually every type of stainless steel we could find. Also does a mighty fine job on cast irons, including Winchester 94s over #2,700,000. Easy to use with our step by step instructions, though a little trial-and-error experimentation helps you get the best results.

SPECS: 40 lb. (18.1 kg) net weight can. Normal mix is 4 lbs. per gallon of water. Uses the same neutralization procedures and chemicals as does Oxynate No. 7.

#082-084-140AK *40 lb. Can Oxynate 84, 2H119V99..... \$ 139.99
— 2 or More — *40 lb. Can Oxynate 84, per each, 2H89V62..... 123.99

*Note: Standard Ground One-Rate Shipping +\$18. Requires additional Hazardous Materials surcharge.

#082-084-940AK 40 lb. Can Oxynate 84, 10 or more, per each 2H123V61..... 134.99

Note: Shipped Truck only. Please call for freight charges. Requires additional Hazardous Materials surcharge.

BROWNELLS NEUTRALIZING KIT FOR OXYNATE® No. 7 & No. 84 BLUING SALTS

Makes Bluing Salts Safe For Sewer Disposal

This kit, combined with two locally obtainable chemicals, makes Brownells Oxynate No. 7 and Oxynate No. 84 Bluing Salts safe for sanitary sewer disposal. Kit contents (replacement components available separately): 50 pound bag of **Dry Sulfamic Acid**; 100, 0-14 pH **Color Test Strips** with color comparison chart for accurate checking of pH level; 100 **Potassium Iodide Starch Test Strips** used to test for any nitrites remaining in the neutralizing solution; one glass **Dropper Bottle** for dispensing 31° Hydrochloric Acid required by the Potassium Iodide Starch Test; and **Brownells Neutralizing Instructions**. The only additional chemicals required are pure household Lye, which can be purchased locally, and 31° Hydrochloric Acid (also known as 18° Baumé Muratic Acid), available locally or from Brownells. ■

#082-073-000AK *Neutralizing Kit 2H229T99 . . . \$ 279.99
#082-073-050AK *Dry Sulfamic Acid, 50 lb. bag, 2H00TPU 259.99
#084-173-002AK 1 oz. Dropper Bottle 4H02A36 3.45
#076-200-166AK Neutralizing Instructions 6G00AVB NC

31° **HYDROCHLORIC ACID** - Used to verify removal of nitrites as a part of the Potassium Iodide Starch Test. Also referred to as 18° Baumé Muratic Acid. One gallon in a plastic jug.
#082-013-128AK *31° Hydrochloric Acid 5L19U77 . . . \$ 25.99
*Note: Requires Additional Hazardous Materials Surcharge

BROWNELLS BLUING SOLUTION CLEANER Extend Oxynate No. 7™ Solution Life Cleans Out Crud; You Get More Bluing Per Bath

Modern hot bluing solutions (such as Oxynate No. 7) are often replaced before their chemical activity is depleted because of accumulated crud in the tank. This includes depleted chemicals, airborne dirt particles and the residue from inadequate cleaning/rinsing. Industry uses expensive and complicated filters to remove this crud. To use our Bluing Solution Cleaner, first add it to the cold bath, stir well as the bath heats, and then skim the bluing bath thoroughly when operating temperature is reached. Your bath will be returned to a clean, trouble-free operation. Plus, the cleaner stays in solution instead of being "used up", so the crud keeps right on coming to the top for easy skim-off. Keeps the bath clean and bluing, and greatly extends solution life. ■

SPECS: 1 pint (16 fl. oz./473 ml) net contents in plastic bottle.
#082-002-016AK Bluing Solution Cleaner 5L21U27 \$ 31.99



BROWNELLS OXYNATE™ "S"

Additive For Bluing Heat-Treated Steels & Cast Irons

Something we all have been looking for - for a long time. Prevents red colors from forming on heat-treated steels; makes possible the bluing of 95% of all cast irons. Prevents bath breakdown when a little copper is present, or a little brazing has been done. Produces deeper color. Shortens in-tank time, increases production. Maintains corrosion resistance of the bluing. Altho' it appears a little expensive in the undiluted state, 1 pint will treat up to 8 gallons (at 2 oz. per gallon), or 2 operating bluing tanks of Oxynate No. 7. So - in the long haul - Oxynate "S" is one of the cheapest additions you can make to your bluing setup. Full, detailed instructions. Must be added when no guns in tank; wait 30 minutes before bluing. ■

SPECS: 1 pt. (16 fl. oz./473 ml) or 1 qt. (32 fl. oz./946 L) net contents in plastic bottle.
#082-029-016AK Pint Oxynate "S" 5L23U33 \$ 32.99
#082-030-032AK Quart Oxynate "S" 5L42X50 55.99

BROWNELLS
... ONLY THE BEST ... PAGE 416



BROWNELLS NitreBlue® BLUING SALTS Gorgeous "Fire Blue" Colors

Turn parts and small pieces a deep, rich, lustrous blue with a finish that's tougher and prettier than most of the cold blues. The process is really quite simple: Heat the salts up to 570°F. - 650° F. (They are NOT dissolved in water, they're used straight). Dip the parts in, watch for the color change. Lower temperatures give a "straw" color like the older Luger parts. As an added bonus, the salts can be used for the drawing operation when heat-treating springs and parts. ■

SPECS: 10 lb. (4.6kg) or 20 lb. (9.1kg) in plastic, resealable plastic pail. 1 lb. of salts will take up approx. 15 cubic in. (.245 cubic cm).
#082-090-019AK *10 lb. NitreBlue Bluing Salts, 5L46V99 \$ 66.99
#082-090-020AK *20 lb. NitreBlue Bluing Salts, 5L81V97 111.99
*Note: Requires additional Hazardous Materials surcharge.

BROWNELLS DICROPAN IM®

Professional "Hot Water"
Bluing Method

Blues Double Shotguns Beautifully -
Without Damaging Ribs

Modern Successor To
"Belgian Blue" & A Great Alternative
To Hot Caustic Bluing

A true multi-purpose bluing solution for both the fully-equipped, high-volume, professional shop and the gunsmith who blues only once in a while. The finish is beautiful... a professional blue-black color... sure to please you and your customers. Dicropan IM is not intended to replace hot salts, but it does provide a safe way to blue traditional double-barreled shotguns with soft-soldered ribs that can separate in hot salts. And it's great back-up system to use when only one or two guns need to be done and it's not worth heating up the hot tanks. ■

For the smaller shop or individual who wants to blue an occasional gun, Dicropan IM can become their primary bluing system. The easy process requires minimal equipment and can be done just about anywhere with only a couple of tanks and a heat source. It is slower than dipping the gun in the hot caustic salts for about 20 minutes... but with only 1 or 2 guns to do, who cares!!

The Dicropan IM formula is forgiving and very easy to apply. We've developed an application technique that works reliably and repeatedly and is so foolproof that we highly recommend it to anyone who wants the best, toughest, and longest lasting Hot Water Bluing available.

Plus, Dicropan IM is safe to use. It contains no caustics, no mercury compounds, has no odor and no harmful fumes. It truly gives you an outstanding bluing job every time - as long as you follow the included instructions carefully and completely. And our Tech Support Staff is always available by phone, e-mail, or our website to help you.

SPECS: 1 qt. (32 fl. oz./946 ml) net contents in plastic bottle.
#082-008-032AK Dicropan IM, 32 oz. 6K44U12 \$ 58.99

Can't Find It Here?
Try Searching Our Website



SATISFACTION GUARANTEED
SINCE 1939



BROWNELLS RUST RELEASE Strips Away Rust & Corrosion, Won't Harm The Healthy Metal Underneath

Powerful, rust stripper removes corrosion from steel and other ferrous metals. Gets rid of flash rust in as little as 15 minutes, cleans heavily rusted steel overnight. Environmentally safe formula attacks the rust but won't hurt the metal underneath, so it's great for restorations where bead-blasting and repolishing are undesirable. Penetrates dirt and oil, eliminating need for pre-cleaning on most jobs. Safer than traditional acid "pickling" processes. Non-flammable, acid-free, and biodegradable with low toxicity and minimal odor. Easy, one-step process doesn't require multiple baths or rinses. Use full-strength straight from container, no messy diluting, mixing, or measuring. Re-usable - one gallon cleans up to 325 lbs. of rusty metal. Solution turns black when its rust removal properties have been exhausted. Also great for de-rusting tools, autos, bikes, antiques, lawn furniture, and many other items around the house or shop. ■

SPECS: 1 gal. (128 fl. oz./3.8 liters) plastic jug.
#082-000-013AK Brownells Rust Release, 1 gal., 2H23U93 \$ 29.99

BROWNELLS STEELWHITE™

THE SAFER, 2nd GENERATION
RUST & BLUE REMOVER

Attacks The Rust, Not The Steel -
pH Neutral, Non-Toxic -
Contains No Hazardous Components

Effectively removes heavy rust, scale and bluing without damaging your expensive firearms or parts, because it attacks the rust, not the base metal. Works great on both steel and cast iron without dangerous fumes; does not cause hydrogen embrittlement. pH neutral solution won't eat your clothing or bench. Does not attack softer metals like brass, copper, zinc or aluminum so there's no need to remove inlays, sight beads or solder-on ribs before immersion. Highly concentrated liquid really saves money. One gallon of **Brownells SteelWhite** can be diluted with water to make up to 20 gallons of safe, economical, rust and blue removing solution. Removes light rust and bluing in as little as 5 minutes; immerse in solution longer for heavier rust or scale. Works great at room temperature but can be heated to 120° F. to increase speed of rust removal. ■

SPECS: Available in quart (32 fl. oz./946 ml) and gallon (128 fl. oz./3.8 L). pH neutral liquid.
#082-055-032AK Quart Steel White Rust Remover, 5L32D56 \$ 43.99
#082-055-128AK Gallon Steel White Rust Remover, 5L125D05 156.99



BROWNELLS RUST and BLUE REMOVER

Attacks Only Rust & Blue;
Won't Damage Steel

There are many times when the use of a good rust remover is called for during the bluing operation - old time guns too fragile to polish - guns that have been badly neglected and are not worth spending enough money on to warrant a good polishing job - and guns so badly rusted it would take too much valuable time trying to buff off all the rust on the metal. Our Rust Remover comes in concentrated form. One quart is mixed with one quart of pure water to make two quarts of operating rust remover solution. The remover is made so it will not attack anything but rusted steel, not the live steel itself, providing immersion is not unreasonably long - several hours, that is. Rust and old blue will be completely removed, leaving nothing but clean steel, ready for polishing. ■



BLUE WONDER BLUE REMOVAL SYSTEM

Strips Old Bluing Fast,
Preps Metal For Refinishing

Two-part system removes old bluing fast, leaving the metal surface clean, prepped, and ready for conventional re-bluing or application of the Blue Wonder blue or black system. Just apply remover, using the included brush for hard-to-reach areas, let stand 4-5 minutes, then rinse with warm water and apply the stabilizer. Produces a chemically clean, bare metal surface in minutes. Remover contains a mild acid that may harm some stock finishes. ■

SPECS: 4 fl. oz. (118 ml) flip-top plastic bottles. Brush - Polymer handle, nylon bristles.
#100-005-005AK Blue Removal System 6C11Y68 . . . \$ 14.99

BROWNELLS HOLD™

Between Polishing & Bluing Rust Preventive

A freshly polished gun, which you have spent hours getting into beautiful condition for bluing, is a prime target for surface rust if it is not going into the bluing tank immediately. A few hours under some conditions - between final polishing and bluing, can result in fine "silver" spots showing up on the gun after it has been blued. These are a result of microscopic rust spots developing following polishing, and prior to bluing. High-powered rust preventives should not be used during this storage period, because they are difficult to remove and, if not completely cleaned off, will result in a "gray" bluing job. Brownells HOLD is the modern answer to in-shop storage of parts, prior to final finishing. It chemically engages free oxygen and neutralizes all acidic impurities, (including fingerprint acids). No petroleum additives are included in this new, modern rust preventive; therefore, oily surfaces are not a problem. Polished, HOLD-treated parts may be put right into the 909™ Cleaning Tank with no change in your regular bluing techniques. Application is either by spray (pint spray bottle is furnished), or by immersion. Small parts may be immersed indefinitely in HOLD with no possibility of rust ever forming. Can be used on all metals except aluminum, magnesium, and cast iron such as engine parts. HOLD is non-caustic, non-acid, non-toxic, non-flammable, inexpensive and easy to use. HOLD-treated gun parts will withstand indefinite in-shop dry storage. ■

SPECS: 1 gallon (128 fl. oz./3.8 L) or 5 gallons (640 fl. oz./18.9 L) net contents.
#082-023-128AK 1 Gallon HOLD™ 2H29U68 \$ 37.99
#082-023-640AK 5 Gallon HOLD™ 5L125U73 153.99



HOW TO GET IT CLEAN!!

To get a really nice, professional result when bluing, Parkerizing, or doing any refinishing operation - you absolutely must get the parts completely clean and grease free.

We degrease using Trichloroethylene (TCE), or a soak in d'Solve - using brushes and plenty of elbow grease - to get rid of all traces of oil. We follow that with at least a 10-minute soak in Dicroclean 909 and a cold water rinse.

Get the parts into the bluing or Parkerizing solution immediately! That perfectly clean steel can rust in a heartbeat. If you're not going to Parkerize, or blue the part right away, spray it liberally with Hold to prevent rust formation. Parts treated with Hold will need to go back through the 909 cycle before finishing.


SPECS: Available in 1 quart (32 fl. oz./946 ml) or 1 gallon (128 fl. oz./3.8 L). 1 quart makes 2 quarts solution, 1 gallon makes 2 gallons of solution.
#082-054-032AK *Quart Rust And Blue Remover, 5L28D05 \$ 39.99
#082-054-128AK *Gallon Rust And Blue Remover, 5L69D98 84.99

*Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

Office/Tech: 641-623-5401

BROWNELLS TANK SOLVENT


Dissolves Grime, Crud, In Scrub Or Soak Tanks

Petroleum-based solvent formulated for bench top Cleaning Stations, or any convenient bucket. Use for slow soak dunk and scrub, or any way you like. Contains special organic additives designed to dissolve that gummy combination of powder fouling, dirt and old gun oil, then hold the crud in suspension so it flushes away easily. Leaves a slightly oily coating to protect against rust. Almost odorless. Stable and non-corrosive. Extremely slow evaporation; stays in your tank. Removes easily with Dicro-Clean 909[™]; won't mess up future bluing/plating jobs. Can damage paint, plastic and some stock finishes. 

SPECS: 1 gal. (128 fl. oz./3.8 L) in metal can, 5 gal. (640 fl. oz./18.9 L) in bulk container. Not for use in "Washboard" parts washer.
#083-034-128AK *1 Gal Tank Solvent 5L49U73 . . . \$ 68.99
#083-034-640AK *5 Gal Tank Solvent 5L196U73 . . . 250.99
 *Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.


BROWNELLS DICRO-CLEAN No. 909[™]

Non-Caustic, Safe Pre-Cleaner For Perfect Gun Preparation

Designed particularly for use on guns prior to bluing. Removes all greases, traces of buffing compounds, dirt. Operates at 180° F. Is non-caustic, and does not get soggy in storage before use. Eight pounds makes from 16 to 32 gallons of cleaner. Will clean some work in as little as 2 minutes; extra cruddy parts may take up to 15 minutes. 
SPECS: 8 lb. (3.6 kg) or 24 lb. (10.9 kg) net weight packages.
#082-005-008AK *8 lb. Dicro-Clean 909 5L38Z01 . . . \$ 57.99
#082-005-024AK *24 lb. Dicro-Clean 909 5L81Z76 . . . 117.99
 *Note: Requires additional Hazardous Materials surcharge.


BROWNELLS NH 909[™]

Non-Caustic, Non-Hazardous, Safe Pre-Cleaner For Perfect Gun Preparation

Designed particularly for use on guns prior to bluing, or any metal refinishing job. Removes all grease, traces of buffing compounds, dirt. Operates at 180° F. Is non-caustic, and the heavy-duty jug keeps it ready for the next use. One gallon makes from 10 to 21 gallons of cleaner. Will clean most work in 10 minutes; extra cruddy parts may take up to 15 minutes. 
SPECS: 1 gallon (128 fl. oz./3.8 L) jug.
#082-000-003AK One Gallon NH 909 5L72D06 . . . \$ 98.99


BROWNELLS TCE CLEANER DEGREASER

Fast-Acting, Deep-Cleaning, Chlorinated Solvent Ozone-Safe Replacement For Trichloroethane

TCE cuts through almost all greases, waxes and gunk, yet because it is completely volatile, does not leave any residue on the cleaned part. We have found TCE to be the very best way to get gunk off prior to bluing, plating or browning. Makes an excellent closed-sonk soak for really gunked-up parts. The least harmful of the chlorinated solvents still generally available. (This isn't a license to be careless; follow the label directions exactly!) Must be used with adequate ventilation; gloves and eye protection are recommended. Keep away from heat and open flame. 
SPECS: Quart (32 fl. oz./946 ml) or Gallon (128 fl. oz./3.8 L).
#083-060-032AK *Quart TCE 5L22X35 . . . \$ 26.99
#083-060-128AK *Gallon TCE 5L63X62 . . . 82.99
 *Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.


BROWNELLS TCE DEGREASER

Powerful Degreaser In A Big Spray Can Ozone-Safe Replacement For Trichloroethane

Cuts through grease, wax, gunk, even silicons; lifts them away, and dries clean with little to no residue. Extra-large can with low-pressure, high-volume stream—the easiest way to get the cleaning power into recesses and corners with minimum disassembly time. Will damage some stock finishes and paints. Use with adequate ventilation; gloves and eye protection are recommended. 
SPECS: 24 oz. (672 g) net contents.
#083-060-024AK TCE Aerosol 3H13X48 . . . \$ 17.99
 Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

BROWNELLS d'Solve[®] GUNSMITH CLEANER


Bench-Top Soaking Cleaner Concentrate Is Fast And Economical

Fast, efficient, soak-cleaner for guns and parts that is non-hazardous, non-flammable, biodegradable, and odor-free. The grimeiest parts left soaking in a bench tray of d'Solve, while you're doing other work on the gun, come out clean, ready to dry, oil, and assemble. Used as a brush-on cleaner, actions and chambers are rapidly rid of crusted dirt and grime. Wiped on, d'Solve is an excellent pre-cleaner for touch-up bluing; tool and equipment cleaning. With a small brush, it is unsurpassed for cleaning old checkering, the caked-on dirt on gunstocks, tough dirt on hunting and camping gear. A stronger mix even removes road tar from finished surfaces. Word-of-mouth from gunsmiths has made it our most popular bench cleaner. It is 100% guaranteed to do the job! One gallon of d'Solve makes five gallons of bench cleaner. It can be mixed stronger for tougher jobs - lighter for less demanding cleaning operations. 
SPECS: Net Contents; 1 gal. (128 fl. oz./3.8 L) in plastic container, 5 gal. (640 fl. oz./19 L) in bulk container. Full instructions.

#082-010-128AK 1 Gallon d'Solve[®] Cleaner, 5L36Z08 . . . \$ 48.99
#082-010-640AK 5 Gallon d'Solve[®] Cleaner, 5L126Z18 . . . 169.99


BROWNELLS STOP-CREEP[™]

Stops Bluing Solution "Crawl"

Helps prevent cooled bluing solution from "climbing" over the edge of the tank. 
SPECS: Approximately 1" (2.5cm) x 2" (5cm) x 3 1/2" (8.9cm).
#082-070-000AK "Stop-Creep" 6K25D27 . . . \$ 31.99

BROWNELLS B.O.N.[™] Crystals BLEED-OUT NEUTRALIZER


Stop "After-Bluing" Salts Bleed-Out

Soaking the gun for 30 minutes in a 5% solution of B.O.N. and water (6 oz. to the gal.) between the cold and hot water rinses after bluing, prevents unsightly and damaging white residue caused by residual salts. Operates at 130° to 150° F. Use in regular type bluing tank. One gallon of mixed solution does several guns. Can be carried over. 
SPECS: 8 lb. (3.6 kg) net weight.
#082-001-008AK B.O.N. Crystals 5L30D35 . . . \$ 38.99

BROWNELLS WATER DISPLACING OIL

"AFTER-BLUIING" RUST PREVENTION


Best Possible "After-Bluing" Oil Removes Water, Neutralizes Salts, Acids & Fingerprints

The real professional - and longtime favorite - "after-bluing", one-step oil and protection treatment. Specially formulated; the molecules of oil actually displace the molecules of water still on the surface of the gun as it comes out of the final hot water rinse. Gives the gun a completely protected surface, ensuring your time spent on polishing and bluing will not be spoiled by rust under the oil. Also a superior rust preventive which neutralizes fingerprints, body acids and oils from handling and shooting. Provides a protective film with that proper "oiled and protected" feel preferred by many serious shooters and gun people. The standard by which other "after-bluing" oils are judged. 
SPECS: Net contents; 1 qt. (32 fl. oz./946 ml) or 1 gal. (128 fl. oz./3.8 L) in metal can, 5 gal. (640 fl. oz./18.9 L) in bulk container.

#082-057-032AK Qt. Water Displacing Oil, 5L24D67 . . . \$ 34.99
#082-057-128AK Gal. Water Displacing Oil, 5L63D16 . . . 93.99
#082-057-640AK 5 Gallons Water Displacing Oil, 5L24D81 . . . 337.99

BROWNELLS PIPE BURNERS

Professional Bluing Salts Heating System

Made especially for bluing tank use. Engineered with the correct size pipe burner, two rows of burner holes, jets and mixing chamber to heat our Oxynate[™] No. 7 and give maximum efficiency. Each burner includes mixer, orifice cap and Tee-Valve. Will save you time in heating-up, and money by eliminating wasted gas. Burners available for NATURAL or LP GAS. 
SPECS: 45" (1.14m) long x 1 1/8" (2.8cm) diameter. Requires 11" (27.9cm) w.c. gas pressure for LP; 4"-6" w.c. for Natural Gas. 42,000 BTU capacity.


#082-031-032AK Natural Gas Bluing Pipe Burner, complete 2H159B69 . . . \$ 200.99
#082-031-051AK LP Gas Bluing Pipe Burner, complete, 2H159B45 . . . 224.99
#082-032-032AK #32 Nat. Gas Orifice 2H07B50 . . . 11.99
#082-032-051AK #51 LP Gas Orifice 2H07B50 . . . 11.99
#082-033-000AK Tee-Valve, w/o orifice cap 2H37B58 . . . 45.99
#082-034-114AK 1 1/8" I.D. Flat Face Mixer, w/shutter, 2H57B50 . . . 71.95
#082-034-159AK Shutter For 1 1/8" Flat Face Mixer, 3K26B05 . . . 35.99
#082-035-158AK 1 1/8" O. D. Burner Pipe 3K00BXC . . . 155.95

PILOT & SHUT-OFF VALVE - Fuel shut-off valve with pilot and thermocouple for your pipe burner. Designed to shut-off both pilot and main burner flame in the event the pilot flame goes out. Complete to do one pipe burner. Instructions included.
#082-038-000AK Nat. Gas Pilot & Thermocouple, 2H499D99 . . . \$ 569.99
#082-039-000AK LP Gas Pilot & Thermocouple, 2H494D99 . . . 559.99

REPLACEMENT PARTS FOR ROUND FACE MIXERS - In December 1992, Brownells changed from a Round Face Mixer with a slip-in Tee-Valve to a Flat Face Mixer with a screw-in Tee-Valve. The parts listed below fit the Round Face Mixers.
#082-034-158AK 1 1/8" I.D. Round Face Mixer, 3K93B85 . . . \$ 110.99
#082-036-032AK Round Face Orifice, Nat. Gas, 3K09D50 . . . 13.99
#082-037-051AK Round Face Orifice, LP 3K09D50 . . . 13.99

BROWNELLS HOT WATER CLEANING TANK PIPE BURNER


Saves Gas & Money On Heating Cleaner & Rinse Tanks

For 909[™] cleaning solutions or hot water rinse tanks, you don't need as much burner capacity as our bluing tank pipe burner delivers. So, to save you gas, and some setup costs, we had these special Hot Water Cleaning Tank Burners designed. They have one row of specially sized holes in a 3/4" pipe. Includes a mixer head and gas cock with either LP or Natural Gas orifice. (Don't use on the bluing tank; they won't make enough heat.) 
SPECS: 42" (106.7cm) long overall. Weighs 4 1/2 lbs. (2.0kg) 1/4" (6.3mm) NPT pipe thread on gas cock. Requires 11" (27.9cm) w.c. gas pressure for LP; 4"-6" w.c. for Natural Gas. 25,600 BTU.

#082-040-000AK Natural Gas HWCT Burner, complete, 2H159D99 . . . \$ 189.99
#082-401-001AK LP Gas HWCT Burner, complete, 2H159Y99 . . . 199.99
#082-033-000AK Combined AGA T-Valve, w/o orifice cap, 2H37B58 . . . 45.99
#082-042-700AK 3/4" I.D. Hot Water/Half Tank Mixer, 2H105D22 . . . 137.99
#082-045-700AK 3/4" O.D. HWCT Burner Pipe, 3K00DZA . . . 119.99
#082-043-003AK Nat. Gas HWCT Burner Orifice Cap, 2H08D79 . . . 13.99
#082-044-053AK LP Gas HWCT Burner Orifice Cap, 2H08D32 . . . 12.99

BROWNELLS GAS GRILL TANK BURNER ADAPTER


Use Your Gas Grill Tank For Bluing

Hose with regulator adapts gas grill propane tanks to power Brownells Bluing/Hot Water Tank Burners. 
SPECS: 60" (152 cm) long, 1/2" (1.3cm) O.D. Fits 1/4" (6.4mm) NPT.
#082-035-001AK Tank Burner Adapter, 1A37B88 . . . \$ 42.49

BROWNELLS BLUING THERMOMETER

Accurate Temperature Readings For Bluing, Plating & Parkerizing Baths

Shown with optional clip 

Accurate temperature control of the bluing bath is absolutely a must for long lasting, true-color blue jobs. Brownells stainless steel Bluing Thermometer is carefully sealed for use in the caustic bluing bath. Each and every thermometer is calibrated and double-checked for accuracy. Cheap, poorly constructed thermometers cause more bluing failures than any other single thing, and it is our feeling that any company offering them for sale to gunsmiths has little knowledge of the bluing game. 
 Brownells Bluing Thermometer has a long, 6" stem. Only 3" of the stem need to be immersed in the bath, leaving 3" of safety margin to keep the dial out of the salts. Supplied with a Clip to attach the Thermometer to the tank and keep it 1" from the side and 1" above the bottom of a 6" deep tank.
SPECS: Thermometer: Black numbers, silver face. 2 1/8" (5.4cm) diameter, 50°-400° F. Clip: Stainless Steel. 2 1/2" (6.3mm) long.
#082-068-000AK Bluing Thermometer, 4K35F199 . . . \$ 44.99
#082-068-100AK Thermometer Clip 4K03H85 . . . 5.85

BROWNELLS**HEAT-TREAT THERMOMETER****Positive Temperature Control
For Lead, Heat-Treat Baths**

Easy, positive way to know that you have the casting pot operating at ideal temperature for perfect cast bullets each time. Makes a cheap pot as accurate as the expensive ones.

SPECS: 2" (5cm) dial, 8" (20.3cm) long stem, .150" (3.8mm) diameter (immerse at least 2" (5cm) in liquids). 304 stainless. Rustproof, dustproof, leadproof, hermetically sealed. Guaranteed accurate to 1/2 of 1% around entire dial range. Uses bi-metallic helix coils - Range is 200° - 1000° F in 10-degree increments. Recommended for continuous use below 800° F; intermittent use above 800° F. **#084-069-225AK Lead Thermometer 4K33V39. \$ 39.99**

BROWNELLS TANK STAND**Versatile, Expandable
System Adapts
To Fit Your Needs**

Lets you design the tank layout to fit YOUR preferred work flow and available shop space. Set up end-to-end, corner-to-corner, side-to-side or overlap side-to-end, then bolt together using the pre-spaced, pre-drilled holes.

Puts the top of a 6" x 6" x 40" tank 3' from the floor. Allows good flame travel across the tank bottom and up the sides. Easily supports a tank full of salts and work pieces. Saves hours of construction time. Partially assembled. Can go UPS.
SPECS: 41" (104.1cm) long, 8 1/4" (22.2cm) wide, 28 3/4" (73cm) high, 3/4" (19.0mm) angle rails, 1" (2.5cm) x 1 1/8" (4.1cm) angle ends, 1" (2.5cm) sq. legs, 5/16" (7.9mm) diameter mounting/assembly holes. Includes Stand, pipe burner lock-downs, 3 Interlocking Bars and Assembly Bolts with nuts and washers. Detailed Instructions include fully diagrammed assembly options.

#082-074-001AK Tank Stand 2H142T30. \$ 194.99

BROWNELLS TANK COVER**Protect Solutions From Contaminants & Evaporation**

Covering the solutions you have in our 40" Black Iron or Stainless Steel tanks when they're not being used keeps dirt and contaminants out and extends solution life by preventing evaporation for a nice \$\$\$ savings to you. Has a thick, rubber seal to compensate for slightly bent or warped tanks and still gives a tight fit. Available in 18 gauge steel or stainless.

SPECS: 18 gauge steel or stainless steel. 40 3/4" (103.5cm) x 6 1/2" (16.5cm). Will not work on tanks with heat saver shields.

#082-074-002AK Steel Tank Cover 2H38T00. \$ 49.95

#082-004-663AK Stainless Steel Tank Cover, 2H69Z99. 89.99

HOW MANY GALLONS DOES THE TANK HOLD?

To determine the number of gallons of bluing solution in your bluing tank, use this formulae (all measurements in inches):

$$\frac{[\text{length} \times \text{width} \times \text{depth of solution wanted}]}{231 \text{ cu. in./gallon}} = \# \text{ gallons solution}$$

Note: Oxynate No. 7" uses approx. 10# Salts per gal. of solution. Oxynate No. 84" uses approx. 4# Salts per gal. of solution.

BROWNELLS**BLACK IRON BLUING TANK****Best Tank Made For Hot Chemical Bluing**

Custom made for us especially for the professional gun bluing industry. About 4 1/2 gallon working capacity. Welded of black iron with inset ends, rolled edges. Will not affect salts in any way, cannot damage solution, chemical balance or use life. Best available!

SPECS: 18 ga. (68.1L) black iron. 6" (15.2cm) x 6" (15.2cm) x 40" (101.6cm). Holds 4 1/2" gallons of solution.

#082-003-664AK Black Iron Bluing Tank, 2H44D42. \$ 55.99

**BROWNELLS
STAINLESS STEEL TANK****Perfect For Parkerizing, Hot Cleaning & Rinse Tanks**

Ideal for cleaning solutions, boiling water, cold or hot rinse tanks, oil tanks...but DON'T USE IT FOR BLUING SALTS!! Bluing Salts in the presence of stainless steel and gun steel frequently can create "galvanic" action (electric current flow) between the two dissimilar metals resulting in a "false plate" of either chemicals (streaking the bluing with random iridescent blues/greens/purples) or stainless steel (giving patches of random silver specks/spots). So - use for all other tanks to prevent rusting and mess; but keep your bluing salts contented and bluing right in our Black Iron Bluing Tanks!!

SPECS: 16 gauge, 304 Stainless Steel. Welded ends, rolled edges. 6" (15.2cm) x 6" x 40" (101.6cm) long. Holds 4 1/2 gal. solution.

#082-004-664AK Stainless Steel Tank 2H152Z28. . . \$ 191.99

BROWNELLS FIBERGLASS TANK**Ideal For Rust Remover, Acids, Water Displacing Oil**

Tough, molded, rigid, fiberglass tanks are the perfect containers for rust remover, dipping oil, plating acids, rinse baths, plating solutions (using an immersion heater) and just about any other chemical you might use in the gun shop. The corrosion-resistant polyester formula used in making these tanks for us offers the highest chemical resistance - in fact, so resistant, it is considered inert to most substances! Heavy-duty, top-quality construction, using finest materials. Has rolled edges for strength, plus makes nice fingertip grip for easy carrying. Flat bottom stands level. Fiberglass won't crack, craze, melt, flex, wobble, react or bleed. Smooth, hi-visibility, off-white interior. Temperature safe to approximately 300° F, but do not use over direct heat source; use immersion heaters only.

SPECS: Outside is 8" (20.3cm) x 36" (91.4cm) x 6" (15.2cm) high. Inside at bottom is 4 7/8" (12.3cm) x 31 1/4" (79.3cm); at top is 6 5/8" (16.1cm) x 34 1/2" (87.6cm). Do not use for long-term storage.

#082-064-001AK Fiberglass Solution Tank, 9A35D73. \$ 46.10

#082-064-002AK Fiberglass Solution Tanks, 2 each, 2H57D60. 82.99

BLUING ACCESSORIES**Much Needed Goodies Make Your Bluing Life Easier**

STAINLESS STEEL DIPPER - Long handled, all stainless steel dipper for adding water to the Bluing Bath. Bent handle for "side" pouring.
SPECS: Stainless steel. 15" (38cm) overall. 4" (10cm) dia. bowl. **#933-001-000AK Stainless Steel Dipper, 3A00TPU. \$ 17.95**

RINSE TANK BRUSH - Natural fiber brush, just right for use in the rinse tank.
SPECS: 1" (2.5cm) long bristles, set 1 1/8" (4.1cm) wide x 4 1/16" (12.2cm) long. 11 5/8" (29.5cm) overall. **#671-540-460AK Rinse Tank Brush, 1G00DZA. \$ 9.99**

BLACK IRON WIRE - Dead-soft annealed so bends easily, holds firmly. Not plated - just a light oil coat so it cannot contaminate/ruin your bluing or plating.
SPECS: 18-gauge about .047" (1.2mm). 50-ft. (1524cm) coils. **#038-018-003AK Black Iron Wire, 3 coils, 8C00YTP. \$ 5.99**

HALFTANKS - Made just half as long as the regular black iron and stainless steel tanks - to hold half as many bluing salts and take less time to heat up. Ideal for handguns and small parts bluing when you don't need to fire up the "big" tanks.
SPECS: Black iron. 6" (15.2cm) x 6" x 20" (50.8cm). Welded seams, rolled edges. Holds 2 gallons of solution.

#082-003-662AK Black Iron Half Tank, 2H36D60. \$ 54.95

#082-004-662AK Stainless Steel Half Tank, 6D99Z95. 119.95

SMALL PARTS BLUING BASKET - Stainless steel baskets, just the right size to keep small parts from getting lost in bluing and parkerizing tanks. Fine mesh screen allows complete solution circulation around parts. Eliminates hanging things on wires. Squeeze to open, spring-loaded handle.
SPECS: Stainless steel. 2" (5cm) dia. basket. 4" (10.1cm) handle. **#515-000-001AK Round Ball Parts Basket, 5A13H65. \$ 16.95**

BLACK IRON DEEP TANK - We've made a 9" deep version of our 6" wide x 40" long black iron tank that's great for bluing with our electric heating units. Leaves a working depth of about 5". Also use for 909-, Boiling Water, and B.O.N.-.
SPECS: Black iron. 6" (15.2cm) wide x 9" (22.9cm) deep x 40" (101.6cm) long. Holds 7 1/4 gallons of solution.

#082-003-694AK Black Iron Deep Tank, 2H65D66. \$ 84.99

BLUING PARTS BASKET - Open-mesh, welded wire permits complete solution circulation around pistols, shotgun frames, rifle receivers, and other large parts.
SPECS: Steel. 14 1/4" (36.2cm) long x 5 5/8" (14.3cm) wide outside, 3" (7.6cm) high. **#082-071-000AK Bluing Parts Basket, 8K12D63. \$ 14.99**

SMALL PARTS BASKET - Fine mesh holds all but the smallest pins and screws without a liner, yet allows plenty of solution circulation. Fits inside our Bluing Parts Basket or, add legs to make it a stand-alone.
SPECS: 13" (33cm) long x 5" (12.7cm) wide x 2 3/4" (7cm) high. .045 (1.1mm) thick mild steel.

#082-072-000AK Small Parts Basket, 8K11D95. \$ 14.97

**BROWNELLS****QUARTER TANK****Specially For NitreBlue® Bluing -
Perfect For Small Parts Hot Bluing**

Just the right size for NitreBlue Bluing of handgun barrels, frames, slides, cylinders and all the small parts that go with them. Holds about 17 lbs. of our NitreBlue Bluing Salts or, holds 1 gallon of Oxynate® No. 7 and Oxynate® No. 84 solutions for bluing handguns one at a time.

SPECS: Black iron. 6" (15.2cm) x 6" x 10" (25.4cm). Welded seams, rolled edges. Holds 1 gallon of solution. **#082-003-661AK Quarter Tank 3K39D90. \$ 49.99**

**BROWNELLS BLUING TANK
ANTI-SPLATTER SHIELD****Helps Protect You From Chemical Splatter**

Stainless steel shield protects you from hot bluing salts that can splatter on you when adding water or more salts to a tank. Easily fits inside Brownells black iron bluing tanks or our stainless steel clean/rinse tank and provides a convenient filling spout. Removes quickly for cleanup. Fits 6" and 9" tall tanks.
SPECS: Stainless steel 5 1/8" (15cm) long, 5 7/8" wide, 9 7/8" (25cm) high overall.

#082-000-015AK Anti-Splatter Shield 2H49D99. . . \$ 69.99

BROWNELLS**BLACK IRON & STAINLESS STEEL
SCREEN WIRE****Ideal For Small Parts Baskets,
Won't Injure Bath**

Line our Bluing Parts Basket with either of these wires to make a well supported, small parts basket with enough room to hold many, many small parts and not lose them into the bath. Easily cut with snips and folded to shape.

BLACK IRON - The mesh is large enough to let the bluing solution circulate, yet small enough to keep pins and screws from falling through. Pure, uncoated wire, won't contaminate your bath. **SPECS:** 24" (60.9cm) long. 12" (30.4cm) wide. .02" (.50mm) diameter wire. No. 14 mesh. **#082-058-000AK Black Iron Screen Wire 8K07D95 \$ 10.99**

STAINLESS STEEL - Mesh is heavier with holes slightly larger than window screening; little pins or screws won't fall through.
SPECS: 12" (30.5cm) x 12" .020" (.51mm) diameter wire. #304 stainless steel. **#082-059-000AK Stainless Steel Screen Wire, 2H09D70. \$ 13.60**

NEOPRENE GLOVES**For Bluing & Plating,
Medium & Heavy Weights**

Withstands oils, acids, greases, solvents, and caustics.

SPECS: 11" (28cm) L. Size 10 & 11. **#967-360-010AK Size 10 Gloves 7F08X50. \$ 10.50**
#967-360-011AK Size 11 Gloves 7F08X50. 10.50

N440 GLOVES - Extra-heavy, black, milled neoprene, multiple-dip glove, offer extra protection in 103 basic oils, acids, caustics, greases and solvents. Extended, gauntlet style, with non-slip grip and curved fingers. Slightly oversize for easy removal. **SPECS:** 14" (35.5cm) overall. Pure neoprene. No lining.

#967-540-010AK Size 10 N440 Gloves 7F15X92. . . . \$ 22.75
#967-540-011AK Size 11 N440 Gloves 7F16X92. . . . 22.99

NEOPRENE SHOP APRON

Protects Against Chemical Splashes

Heavyweight, brown, Neoprene apron protects clothing and skin from the oils, acids, caustics, greases and solvents encountered in the gun shop. The best apron we have seen for jobs involving hazardous chemicals.

SPECS: Neoprene, 36" (91.4cm) x 46" (117cm).
#100-001-000AK Neoprene Shop Apron, 1200PUA \$ 19.95



BROWNELLS PREMIUM SHOP APRONS

Top Quality, Custom-Made For The Professional Gunsmith

Made from the best grade, tightly woven, 2-ply yarn, all-cotton duck—the same stuff they make top quality, insulated coveralls from. Solvent- and oil-proof nylon thread used throughout. Everything heavily reinforced with seams rolled, double stitched and finished, all corners and stress points bar-tacked for strength. Machine washes and dries without edges curling or losing shape.

LONG SHOP APRON - Covers from shoulders to below the knees to keep dirt /crud off your clothes. Adjustable neck strap for a custom fit. Neck and rear tie straps are double thickness for extra strength. Three pockets: a centered upper one with a sewn-in pencil slot and large lower ones on the left and right sides.

SPECS: 39½" (100.3cm) long, 30½" (77.5cm) wide. Pockets: Top - 4½" (12.4cm) wide x 4¾" (12cm) high with pencil slot. Lower (x2) - 7¾" (19.7cm) wide by 6¾" (17.1cm) high. Ties: each 27½" (69.8cm) long. Neck strap: 21¾" (55.2cm) long.

#084-071-000AK Brownells Long Shop Apron, 4A25V48 \$ 33.99

SHORT SHOP APRON - Top-quality, custom-made, above-the-knees apron. Hook-and-loop closure on the neck strap lets you adjust the "bib" for maximum coverage and the length to match wearer's height. Centered top pocket is sewn solidly to the apron so it can't swing and has a separate slot for pens, pencils, or a mike. Roomy, double, lower pockets.

SPECS: 28½" (72.4cm) long, 2" (63.5cm) wide. Pockets: Top - 4½" (10.5cm) wide x 4¾" (12cm) high with pencil slot. Lower (x2) - 6¾" (17.1cm) wide x 6¼" (15.9cm) high. Ties: each 27½" (69.8cm) long. Neck strap: 21¾" (55.2cm) long.

#084-071-050AK Brownells Short Shop Apron, 4A26V35 \$ 32.99



BROWNELLS SQUEEZE BOTTLES

Perfect Cold Blue Dispensers

Get cold blues, cutting oils and lubes out easily, so you're not tempted to stick a dirty swab back in. Pick-up spouts for drop-by-drop application, or squeeze the bottle to flood an area.

SPECS: Nalgene®, 2½" (6.3cm) dia., 5½" (14cm) tall, 8 fl. oz. (237 ml) capacity. Sold in pairs. Combo has one each.

#084-037-001AK Side Spout Bottles 4H10V08 \$ 14.99

#084-037-002AK Top Spout Bottles 4H06V99 9.99

#084-037-000AK Squeeze Bottle Combo 4H07V99 10.99



BROWNELLS FINGERTIP PUMP DISPENSER

Chemical-Resistant; Meters Beautifully

Polyethylene bottle with stainless steel fingertip pump stores and meters precise amounts of cold bluing, solvents, and other thin liquids used in the gun shop. Eliminates waste and contamination.

SPECS: Polyethylene w/stainless steel pump, 6 fl. oz. (177 ml).
#084-000-166AK Pump Dispenser 4H19D99 \$ 22.99



BROWNELLS SHOP SWABS



Wire Handle Adds Strength To These Applicators Of 1000 Uses

Large, wire-handled, dauber-type swab. Excellent for flooding on cold blues and many other shop applications.

SPECS: ¾" (19mm) diameter, 3½" (9cm) overall.
#080-529-040AK Package of 40 Shop Swabs, 8K07Z89 \$ 10.95

BELGIAN BLUE

Herter's Original Formula Blue For Doubles & More

The original Herter's Belgian Blue formula, now owned by Art's Gun & Sport Shop, and the results are just as nice as ever. Excellent for soft soldered doubles and for the occasional rebler who doesn't want a hot salts bluing setup. Applies easily: Clean the gun thoroughly, boil the metal in water, remove, wipe dry and gently swab on Belgian Blue, with no slops or runs. Return to the boiling water for a few minutes, remove and card with fine steel wool. Repeat steps until the desired color is achieved. Works on all gun steels except stainless. Instruction sheet included.

SPECS: Pint (16 fl. oz./473 ml) or Quart (32 fl. oz./946 ml).
#464-100-016AK Pint Belgian Blue 4F37X49 \$ 42.99
#464-100-032AK Quart Belgian Blue 4F78X31 89.99
 Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.



BLUE WONDER GUN BLUE & BLACK KITS

Durable Finishes Without Expensive Equipment; Touch Up Or Do Whole Guns

Two-part kits achieve a durable, beautiful, blue or black finish on complete guns or dinged-up areas on damaged ones without expensive equipment. Perfect for professionals who have only one or two guns to refinish and user-friendly enough for the home hobbyist. It's great for touching up worn, rusted, nicked, or scratched factory bluing because it only sticks to the damaged areas, and leaves the good bluing unaffected. The "stop and start" feature allows you to go back and add coats of bluing before the developer sets, for a deeper, darker finish. The unique process does not use oxidation. Instead, it embeds micronized gold, silver, nickel, copper, and chromium onto the gun's metal. Experiment for a variety of possible finishes. **Gun Blue** produces a color that matches many factory hot blue finishes. **Gun Black** produces a finish that's a deep, dark black. Available in 2 oz. kits for touch up or bluing complete rifles, shotguns and handguns.

SPECS: 2 oz. Kit - Includes 2 fl. oz. (59 ml) gun blue or black, ½ fl. oz. developer, and 1 fl. oz. cleaner. 2 oz. Blue Kit also includes ½ fl. oz. Disotec XFR oil.

#100-004-540AK 2 oz. Gun Blue Kit 6C15Y91 \$ 19.99

#100-004-321AK 2 oz. Gun Black Kit, 6C12V81 19.99

Cannot Ship outside Continental U.S. Ship UPS or FedEx Ground only within U.S.



ALUMINUM BLACK

For Black Touch-Up Of Anodized Aluminum

Applies and reacts like Perma-Blue. Ideal for touching up black, anodized aluminum. Used and specified by the Armed Forces and manufacturers of electronic equipment. Produces rich, black finish instantly with no special equipment or skills.

SPECS: 3 fl. oz. (89 ml) net contents.
#167-004-170AK Aluminum Black, each 7F05T86 \$ 9.99
- 3 or More - Aluminum Black, each 7F05T13 9.60
 Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.



FORMULA 44/40 INSTANT GUN BLUE

By BROWNELLS



- Fast, Easy, Wipe-On, Wipe-Off Application
- Original High-Speed Formula
- Deep Penetrating

44/40 has long been one of the cold-blue standards in the industry, and we here at Brownells are delighted to have purchased the original, high-speed formula and the legendary name and to keep it available for its many fans.

44/40's familiar bluing action is almost magic; simply dampen a patch with 44/40, wipe it on and wipe it off immediately with a dry one. The coloring action happens instantly and the color penetrates deep into the metal for a long-lasting finish. There's no need to soak or rub for long periods. Surface preparation's easy, too; for scratches, just clean and degrease as you normally would and apply 44/40. As a blue for external/internal parts and pieces, the procedure is just as easy. Bring the surface to the finish you want, clean it and wipe-on, wipe-off. 44/40 will do the job beautifully.

And, it's great for other jobs around the shop, too. The quick action and dark color makes 44/40 an excellent substitute for traditional layout fluids. The steel is darkened quickly so your layout lines will show up. There's no surface buildup of "paint" to foul up dimension readings and nothing to peel or flake off. Coat lathe and cutting tools before sharpening so you can see where you're grinding. Use 44/40 to age brass and copper in restorations, or just to reduce glare and reflection. You can literally do thousands of jobs with 44/40!

You need 44/40 on your bench; the highly active formulation makes sure that you're going to be able to expertly touch-up virtually any non-stainless gun steel and professionally blend the repair into the original finish.

For the gun shop or store, there's the proven, "sells-itself" display. It comes with a dozen, 2 ounce bottles of 44/40 in a brightly labeled, attention-getting, countertop display tray, along with a test bottle and a supply of nails so your customers can dip into 44/40 to see how quick and easy it really is. Plus, you get cleaning patches for the "wipe-off" part of the procedure. Of course, you can buy the 2 oz. bottles singly as well and, for the gunsmith, 44/40 is available in a 32 oz. jug.

SPECS: 2 fl. oz. (59 ml) or 32 fl. oz. (1 quart/946 ml). Counter Display includes 12, 2 oz. bottles of 44/40, 1, ½ oz. test bottle, 18 nails and 18 patches, plus molded plastic countertop display. Carton contains 12, 2 oz. bottles. Shipping prepaid on 24 carton single purchase.

#082-440-002AK *2 oz. 44/40 6K06Z25 \$ 9.35
#082-440-012AK *1 Carton 44/40 6K75Z00 112.20
#082-440-032AK *32 oz. 44/40 6K44A61 59.97
#082-440-000AK *44/40 Counter Display 2H80Z90 121.25

*Note: Requires additional Hazardous Materials surcharge.
 *Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.



BROWNELLS 44/40 CREME

Instant & Aggressive; Stays Where You Want It

Our legendary, deep-penetrating, fast-action cold blue in a stay-put creme that gives you remarkable control for touch-up application. The simple, wipe-on, wipe-off method works great on a wide variety of steels and provides the solid-black coloring you need to match gun bluing. Surface preparation is simple and quick. A life saver around the house and the garage as well; try it on any steel you want to give a blue/black finish.

SPECS: 4 fl. oz. (118 ml).
#082-441-004AK 44/40 Creme 2H15Y60 \$ 20.99
#082-441-412AK 44/40 Creme, 12-pak 2H145Y87 194.99
 Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.



BROWNELLS CLASSIC RUST BLUE

Gives Fine Firearms The Luster Of A Rich, Traditional Blue Finish

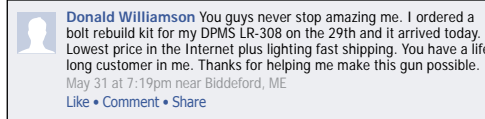
Nothing adds the finishing touch of elegance and perfection to a fine firearm quite like the rich luster of a traditional rust blue finish. Nowadays, only a handful of master gunsmiths still practice the art of producing this fine, classic finish using proven recipes more than a century old. With our Classic Rust Blue, you too can achieve the "secret" rust blue so fitting when restoring older guns, especially soft-soldered double guns, or finishing modern, exhibition-grade custom pieces. Rust bluing doesn't require a lot of expensive equipment and is actually easier for the home gunsmith and hobbyist to do than modern hot-bluing processes, while producing a deep, brilliant, finish that will outlast many modern alternative finishes. The process is time consuming, but for a quality firearm, the results are well worth the investment of time and effort.

Like the tried and true originals, our authentic formula is a precisely balanced concentration of bluing salts and acids that require diligent metal preparation and multiple applications to achieve the truly stunning metal finish you expect from rust bluing. The rich, blue-black coloration is obtained by boiling the parts in water and rubbing them down with steel wool after each application of formula. Follow the included step-by-step instruction booklet to produce the exquisite, "into-the-metal" finish achieved by master gunmakers of the 19th century.

SPECS: 4 fl. oz. (118ml) net contents; complete instructions included.
#082-000-010AK Classic Rust Blue 2H10D43 \$ 13.99
 Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.



FRIEND US ON FACEBOOK!



BROWNELLS OXPHO-BLUE®

Finest Professional Cold Blue On The Market - Period!

Originally developed for the occasional bluer who is not equipped to completely polish a gun prior to bluing, Oxpho Blue - because of its ease of application and remarkably superior results - has become a favorite of the professional gunsmith as well. With Oxpho-Blue, all you need to do in most cases is dampen a piece of cotton flannel and give the area a good rubbing. The chemical goes through the oil on the gun, removes thin rust and blues the steel underneath. No after-rust. For looks, the final finish was not intended to approach the beauty of the well-polished, hot-blued gun. It has developed, however, that in the hands of a careful craftsman, not only is the Oxpho-Blue finish beautiful, but it is also more durable and weather-resistant than any other known chemical finish!

Oxpho-Blue has other outstanding features worthy of note:

1. Absolutely no after-rust.
2. Phosphate-like surface forms under the blue.
3. Rust removing qualities of the solution make it unnecessary to remove mild rust in the usual manner.
4. "Wetting" characteristics of the solution give it the ability to penetrate oil, dirt, etc., on the surface of the gun; blue the metal underneath; remove rust and dirt; leave the gun blued and ready for oiling.
5. Beauty and High durability of the finish: Vigorous rubbing with No. 0 steel wool is one of our favorite application methods - the more rubbing, the more brilliant it becomes and, since abrasion is part of the process, normal contact from gun cases, brush and clothing won't wear your bluing. (Note: It is possible to get a surface so dense with Oxpho-Blue that water will puddle on it!)
6. For the Neighbor Kid and Mr. Average Sportsman, a beat-up gun can be made to look quite presentable by following this technique: Dampen a shoe shine cloth with Oxpho-Blue and apply it with a shoe shine motion - without taking too much trouble to remove old dirt, grease, rust, etc. This gimmick obsoletes all other kinds of bluing for retail sale, for any youngster can make his old man's gun look quite presentable. For gun club members, neighborhood shooters, etc., one bottle takes care of the lot. (The rub-on feature works wonders on tools and instruments which have been blackened and show bright along the edges: just dampen a cloth with Oxpho-Blue, rub the bright areas briskly and they are as black as before, but tougher.)

SPECS: 4 fl. oz. (118 ml) or 32 fl. oz. (1 quart/946 ml) net contents in plastic bottle.

- #082-024-004AK *4 oz. Oxpho-Blue 6K08V55 \$ 10.95
- #082-024-032AK *32 oz. Oxpho-Blue 2H20V41 25.95

*Note: Requires additional Hazardous Materials surcharge. *Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

BROWNELLS OXPHO-BLUE® CREME

Toughest Cold Blue In A No-Run Creme

We took our proven, tough Oxpho-Blue and made it in a creme formula that's really wonderful to work with. You have full control as you wipe it on and it absolutely won't run off or evaporate away. So, whether you're rubbing it in with steel wool, coarse paper towels or using the "shoe shine" cloth method, you'll have plenty of work time. You get the same, famously durable, Oxpho finish with less work and waste. But, don't limit yourself to guns, use Oxpho Creme anywhere you need to give steel a quick, uniform, blue/black finish that's light-weight and won't add or subtract from critical dimensions.

- SPECS: 4 fl. oz. (118 ml) net contents.
- #082-124-004AK *4 oz. Oxpho-Blue Creme, 2H07Y87 \$ 9.99



BROWNELLS COUNTER DISPLAYS

Easy Sales Of Oxpho Blue® & Dicropan T-4®

Let Oxpho-Blue's toughness and T-4's fast-coloring ability make sales \$ for you. You get 12, 4 oz. bottles in a shipping case that folds up to make its own eye-catching counter display. The product sells itself!

SPECS: 4 fl. oz. (118 ml) bottles (case of 12).

- #082-024-412AK *Oxpho Blue Liquid Display, 2H102D34 \$ 133.99
- #082-124-412AK *Oxpho Blue Creme Display, 2H89Y99 99.99
- #082-056-412AK *T-4 Liquid Display 2H101D09 148.99
- #082-156-412AK *T-4 Creme Display 2H109Y99 129.99

BROWNELLS DICROPAN T-4®

Tough, Easy-To-Use, Deep-Colored Professional Touch-Up Blue



T-4 is in the catalog because of customer demand. As Maynard Buehler said: "THIS is the BEST yet." Every time a new gun blue comes on the market, we test it on a piece of gun barrel. We blue three spots: one with the new blue, one with Oxpho-Blue™ and one with T-4. A day later we start rubbing all three areas with steel wool until one of them starts wearing off. So far, Oxpho-Blue™ is toughest and T-4 next. However, for ease of application and deep density of color, T-4 is superior. Its ability to touch-up wear and scratches instantly has made it a favorite. 100% Guaranteed!

- SPECS: 4 fl. oz. (118 ml), 16 fl. oz. (473 ml), 32 fl. oz. (.946 L) net contents.
- #082-056-004AK 4 oz. T-4 2H09D28 \$ 12.99
- #082-056-016AK 16 oz. T-4 2H25D26 36.99
- #082-056-032AK 32 oz. T-4 6K36D80 43.99

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

BROWNELLS DICROPAN T-4® CREME

Finest Touch-Up Blue In Stay-Put Creme



T-4 is unsurpassed in its ability to color many different steels almost instantly. The creme formula makes it even better for spot touch-ups...stays where you put it so surrounding bluing is unaffected.

- SPECS: 4 fl. oz. (118 ml) net contents.
- #082-156-004AK 4 oz. Dicropan T-4 Creme, 2H09Y98 \$ 13.99

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

GUNSMITHING TIPS!
FREE ONLINE!

SATISFACTION GUARANTEED SINCE 1939

BIRCHWOOD CASEY METAL FINISHING PRODUCTS

SUPER BLACK INSTANT TOUCH-UP PEN - Gloss black or flat black aluminum paint in large size "Magic Marker" with felt tip applicator. Good scratch-filling ability.

- SPECS: 6" (15.2cm), 1/2 fl. oz. (10 ml).
- #167-004-180AK **Gloss Inst Touch-Up**, each, 7F04T79 \$ 7.99
- 3 or More - **Gloss Inst Touch-Up**, per each, 7F04T05 7.50

- #167-004-190AK **Flat Inst Touch-Up**, each 7F04T99 . . . 7.99
- 3 or More - **Flat Inst Touch-Up**, per each 7F04T05 7.50

SUPER BLUE - Deep, blue-black finish penetrates hard steel instantly. Works great on polished steel that contains nickel or chrome alloys, including mauser-style bolt release buttons. For touch-up or complete re-blue. Available in 3 fl. oz. or 32 fl. oz. container

- SPECS: 3 fl. oz. (89 ml) or 32 fl. oz. (.95 L) net contents, plastic bottle.
- #167-008-200AK 3 oz. Super Blue, each 7F06T50 . . . \$ 9.99
- 3 or More - 3 oz. Super Blue, per each 7F04T77 . . 8.90
- #167-134-320AK 32 oz. Super Blue 7F38T03 44.99

PASTE BLUE - Concentrated for deeper color, longer wear. For reblue or touch-up. Won't dry out.

- SPECS: 2 fl. oz. (59 ml) net contents.
- #167-002-200AK **Paste Blue**, each, 7F04B42 \$ 7.99
- 3 or More - **Paste Blue**, per each, 7F03B92 7.20

PLUM BROWN - For chemically browning antiques and muzzleloaders, and for sportsmen preferring the brown color to black or blue. Easy to use. Gives deep color and metal penetration.

- SPECS: 5 fl. oz. (148ml) or 32 fl. oz. (960ml) glass bottle net contents.
- #167-000-002AK 5 oz. Plum Brown, each 7F06B99 . . \$ 10.99
- 3 or More - 5 oz. Plum Brown, per each 7F05B56 10.30
- #167-000-027AK 32 oz. Plum Brown 7F29B99 42.99

BLUE & RUST REMOVER - Removes old blue and rust before rebluing. Harmless to metal. Provides rust-inhibiting film that protects metal up to 72 hours.

- SPECS: 3 fl. oz. (89 ml) net contents.
- #167-006-100AK **Blue/Rust Remover**, each, 7F03T15 \$ 5.99
- 3 or More - **Blue/Rust Remover**, per each, 7F02T79 5.10

CLEANER-DEGREASER - Completely removes all grease, oil, dirt, wax, silicone, etc. No harmful fumes, non-flammable. Will not gum up.

- SPECS: 3 fl. oz. (89 ml) net contents plastic bottle.
- #167-007-110AK 3 oz. Cleaner/Degreaser, each, 7F03T49 \$ 5.99
- 3 or More - 3 oz. Cleaner/Degreaser, each, 7F02T79 5.10

PRESTO® GUN BLUE PEN - Pocket-size, felt-tip marker touches-up minor scratches instantly. No waste or mess.

- SPECS: 5/8" (14cm) long pen w/ pocket clip cap.
- #167-132-010AK **Gun Blue Pen**, each 7F04T17 . . \$ 6.99
- 3 or More - **Gun Blue Pen**, per each 7F03T69 .680

PERMA-BLUE - Penetrates and blues steel instantly. For touch-up or complete reblue. Produces a rich, black finish. Highly rust resistant.

- SPECS: 3 fl. oz. (89 ml) net contents.
- #167-001-220AK **Perma Blue**, each, 7F04B99 \$ 6.99
- 3 or More - **Perma Blue**, per each, 7F03B69 6.80

BRASS BLACK - Use for touch-up or complete refinishing. For sights, screws, swivels - copper or brass. Is also excellent for permanent marking to identify reloaded cartridge cases. Easy to use. Instant.

- SPECS: 3 fl. oz. (89 ml) net contents.
- #167-005-200AK **Brass Black**, each, 7F05T78 \$ 9.99
- 3 or More - **Brass Black**, per each 7F05T13 9.60

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

LAUREL MOUNTAIN FORGE BARREL BROWN & DEGREASER

Finest, Classic, Rust Browning System Available

Non-toxic rust browning formula produces a beautiful, fine-grained finish. Requires minimal pre-cleaning. Works fast, 4 to 6 applications 3 hours apart. Works best with a "damp box."

- SPECS: 2 fl. oz. (59 ml) or quart (32 fl. oz./946 ml) net contents.
- #519-100-025AK 2 oz. Laurel Mtn. Brown, 9A00ZAY \$ 9.99
- #519-100-032AK 1 qt. Laurel Mtn. Brown, 9A78P18 90.99

MARK LEE EXPRESS BLUE #1 EXPRESS BROWN #2

Quick & Easy Using Propane Torch



No damp cabinets or long rusting periods required to get good-looking blues and browns. Heat part to 150°-200° F.; swab on solution, and card with soft wire wheel or fine steel wool. Blue #1 does require parts be immersed in boiling water for 5 minutes before carding. Brown #2 gives excellent brown without boiling water; boil for dark brown/black.

SPECS: 4 fl. oz. (118 ml) and 16 fl. oz. (473 ml) net contents bottles. Detailed instructions.

- #575-200-004AK 4 oz. Express Blue #1 5G05T83 . . . \$ 5.50
- #575-100-004AK 4 oz. Express Brown #2 5G06T10 . . . 9.99
- #575-200-016AK 16 oz. Express Blue #1, 5G12T80 20.00
- #575-100-016AK 16 oz. Express Brown #2, 5G12T80 20.00

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

PILKINGTON CLASSIC AMERICAN RUST BLUE

Rich, Authentic Rust Bluing Process



The favorite of custom builder Phil Pilkington who developed it to produce a deep, rich, rust blue that's so fitting when restoring older guns and high grade, custom shotguns and rifles. No damp cabinet or special equipment required. After two applications of the solution, the parts are left to rust for a few hours, then boiled in water, removed and carded. The process is repeated (immediately or as long as 3-4 days apart) until the desired color and depth are reached. Like any true rust bluing process, there's no "quick and easy" way to apply it, but then, nothing matches a rust blue finish for classic beauty. The 4 oz. bottle will do many guns. Included with the solution is an excellent 8-page instruction booklet describing all materials needed and the full process in easy steps, plus . . . how to "Fume Blue", another of Phil's processes.

- SPECS: 4 fl. oz. (118 ml) net contents.
- #703-200-004AK **Pilkington Rust Blue 3K36D10** . . . \$ 36.99

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

HOW TO APPLY THE HIGHLY SOUGHT AFTER GRAY FINISH ON ENGRAVED FIREARMS

Guiseppe Forté, long-time member of and 1987 President of the Firearms Engravers Guild of America, was kind enough to "tell us how it's done". We have this monograph available for you, free of charge, if you will just ask for it. This is wonderful information - we are all indebted to Guiseppe for sharing it so generously with the industry.

- #076-200-388AK **Forté Gray Finish Instructions** NC

BROWNELLS MANGANESE PARKERIZING SOLUTION & KIT

Original, Manganese Phosphate Solution
For A Tough, Rust-Resisting Finish;
Easy To Use; Detailed Instruction Booklet;
Meets Mil Spec STD171



With a Brownells Manganese Parkerizing setup in your shop, you can give your customers the same durable, economical finish that's protected U.S. military firearms for decades. An ideal choice for hard-working handguns, rifles and shotguns. Its dull gray finish blends beautifully with camo gear and won't "flash" to spook game, plus the coating's porous structure lets it soak up oil to help prevent rust. Parkerizing's easy to do and, since it works best on a "blasted" finish, you don't need polishing equipment and won't have to charge for polishing time. The color will vary from light to dark gray, depending on the base metal's alloy and hardness, and Parkerizing creates a superb base for a baking lacquer or camo paint finish.

Once you've gotten your solution mixed and activated, you just add water as you use it and top off the tank with fresh solution between uses. No need to throw it out after each use and no complicated testing to make sure the levels of "Newt's eye and frog hair" are correct. As we experimented we deliberately tried to destroy the solution and goof up the results and, at times, we had some pieces come out that weren't as nice as we'd like. But, even the bad pieces were usable and we put all we learned into the detailed Instruction Booklet; we made the mistakes so you won't have to, and our Instructions give you far more than just the hard facts. We explain how and why Parkerizing works, and give you lots of trouble shooting info.

If you're already set up for Oxynate No.7™ bluing, adding Parkerizing to your shop is really easy. You'll need our Parkerizing Solution, a stainless steel tank and stand, a diffuser plate, heat source, some Post Solution Treatment, a fiberglass tank, atomized steel activator, bore plugs, a couple of coffee filters and our Instruction Booklet.

If you're starting from scratch, our complete Parkerizing Kits give you the chemicals, tanks, stands and burners, safety gear and more, right down to the wire you'll need to hang the parts and rubber plugs to protect the bore. Set it up, hook up to an Electric, LP or natural gas supply, mix the solutions, and you're ready to give your customers a tough, durable, rust-resistant finish; quickly, easily, repeatedly, confidently and profitably.

GAS MANGANESE PARKERIZING KIT - The Gas Parkerizing Kit is a great value. Buying all the components separately you'd pay over 15% more than you do for the kit.

SPECS: Kit contains: 1 gallon (128 fl. oz./3.8 L) of Brownells Manganese Parkerizing Solution; 5 gallons (640 fl. oz./18.9 L) of Brownells Parkerizing Post Solution Treatment; 8 lbs (3.6 kg) of Dicroclean 9091™; 12 oz. (340 g) pak of Atomized Steel; 6 rifle/pistol bore plugs; 6 shotgun bore plugs; 1, 6" (15cm) x 6" x 40" (101cm) stainless steel tank; 3, 6" x 6" x 40" black iron tanks; 1 fiberglass tank; 4 tank stands; 1 tank cover; 1, 3/8" (9.5mm) x 6" x 40" diffuser plate; 1 face shield; 1 pair of heavy rubber gloves; 1 shop apron; 2 rinse tank brushes; 2 hot water tank burners and 1 pipe burner, all three include natural gas and propane orifices; 1 bluing thermometer; 50 ft. (15m) of black iron wire and 5 coffee filters.

#082-200-000AK Gas Mang Park Kit 2H1699Y99 \$ 2,119.99
Shipped Truck only. Please call for freight charges. Cannot ship outside Continental U.S.

PARKERIZING SUPPLIES ONLY - 16 oz. (473 ml) bottle of Parkerizing makes 1 gallon of solution for recharges, small parts or where shipping restrictions limit container size.

#082-200-016AK *16 oz. Mang. Parker. 5L13Y61 . . . \$ 18.99
#082-200-128AK *1 Gal. Mang. Parker. 5L73Y34 . . . 89.99
#083-134-128AK *1 Gal. Post Treatment Sol 5L50U25 82.99
#083-134-640AK *5 Gal. Post Trtmt Sol 5L186U98 . . . 317.99
#081-021-104AK 12 oz. Atomized Steel 5L18U33 . . . 24.99
#082-201-000AK Diffuser Plate 1K36Y38 . . . 46.70
#082-201-100AK 6-pak Rifle/Pstl Bore Plugs 2H06Y66 . 9.99
#082-201-101AK 6-pak Shtgn Bore Plugs 8K18Y48 . . . 27.99
#076-200-482AK Parkerizing Instructions NC
Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

BROWNELLS BENCHTOP PARKERIZING KIT

Economical, Easy-To-Use System Produces Genuine,
High-Quality, Tough, Rust-Resistant Parkerized Finishes

Perfect for the serious home gunsmith or the small shop that does only a few Parkerizing jobs a year but wants an alternative to jobbing out the work. This kit contains everything you need to Parkerize handguns and small parts. It lets you expand the range of services your shop offers without a big-dollar investment. Give your customers' guns a tough, durable, rust-resistant finish quickly, easily, repeatedly, confidently—and profitably. Since the process works best on a "blasted" finish, you don't even need to invest in expensive polishing equipment.

Kit includes all the chemicals, tanks, and safety gear you'll need, right down to wire to hang the parts on. All you have to add is a heat source and a supply of clean water. Our detailed Instruction Booklet takes you through the process step-by-step. Once the solution is mixed and activated, just add water as you use it, and top off the tank with fresh solution between jobs. No need to throw it out after each use.

Choose between two processes, manganese or zinc; both produce tough, corrosion-resistant finishes. You can provide whichever finish your customer wants just by changing the solution in your tanks. Manganese provides a thicker, medium/dark gray or black finish that meets MIL-STD 171 for small arms finishing. Zinc produces a light/medium gray finish with a finer grain surface that is cosmetically appealing. It also provides plenty of "tooth" to grab other finishes like Baking Lacquer, Alumina-Hyde II®, Teflon®/Moly Oven Cure Gun Finish, and Gun-Kote™.

SPECS: Kit contains 1 pint (16 fl. oz./47 L) of Parkerizing Solution; 1 gallon (128 fl. oz./3.8 L) of Brownells Parkerizing Post Treatment Solution; 12 oz. (340 g) pak of Atomized Steel; 1 pint NH 9091™ Non-Hazardous Liquid Cleaner/Degreaser; 1, 6" x 6" x 10" (15.2cm x 15.2cm x 25.4cm) stainless steel tank; 2, 6" x 6" x 10" (15.2cm x 15.2cm x 25.4cm) black iron tanks; black iron wire, 3 coils 50" (15.2m) ea.; 1 bluing thermometer; 1 pair of heavy rubber gloves; 1 neoprene shop apron; 1 face shield; 1 coffee filter; instructions.

#082-200-002AK *Benchtop Manganese Parkerizing Kit, 8K255Y69 \$ 337.49

#082-200-003AK *Benchtop Zinc Parkerizing Kit, 2H254Y46 305.99

#082-000-011AK NH 909 Liquid Cleaner/Degreaser, 1 Pint, 2H11D94 15.99

*Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only in U.S.



BROWNELLS ZINC PHOSPHATE PARKERIZING

Heavy Zinc Phosphate Process
Provides Excellent Surface
For Holding Oils & Lubricants
Or As Undercoat For
Spray-On/Bake-On Finishes



A very user-friendly process that produces a non-metallic zinc phosphate coating on iron and steel that is highly resistant to corrosion, very durable and long wearing. The traditional, charcoal-gray color is ideal for non-glare finishes on tactical and hunting guns, or restoring older military guns. The large, uniform grain structure and even thickness coating gives excellent retention for lubricants and rust preventives. Also provides an ideal base for spray-on/bake on finishes such as Brownells Baking Lacquer, Alumina-Hyde II and Teflon Moly Gun Finish. The

BROWNELLS SUPER-STRIP™

Strips Plated Finishes Quickly,
Without Damage



Powder mixes to a potent solution that quickly strips electrolytic nickel, copper, chrome, zinc, cadmium, and electroless nickel plating from steel. No fumes, rusting or damage to the parent metal. **For STEEL only; may damage other metals.** Requires a 6-volt, 90-110 amp, deep cycle (GC-1) battery. **SPECS:** 10 lb. (4.5 kg) pail. Makes 2 gal. (256 fl. oz./7.6 L) of solution with enough left for one, 2 gallon rejuvenation.

#082-066-010AK Super-Strip 5L61T61 \$ 84.99

ALTERNATIVE FINISHES PARKERIZING, COLOR CASE HARDENING, PLATING & BROWNING

PARKERIZING - Parkerizing is ideal on most steels (but not aluminum or stainless) as an alternative to bluing. It is ideal for hunting and law enforcement firearms due to good weather resistance, low light reflection and durability against wear. Due to slight surface etching, Parkerizing is not recommended for match-grade barrels. A Pre-Dip Blackener can be used to change the finish to black, or the parts can be blued, dyed or sprayed with Brownells Baking Lacquer or Alumina-Hyde™ after Parkerizing. Application is by immersion in a glass, ceramic, fiberglass or stainless steel tank of heated solution.

COLOR CASE HARDENING - This classic finish is found on the receivers of Colt Single Actions and many shotguns. The brilliant, swirling blues, grays and golds are the result of packing steel parts in a mixture of wood and bone charcoal, heating them to roughly 1400° F, then quenching in water. The surface of the steel is also hardened in the process. Because of the high temperatures, warping can be a problem and parts where a specific hardness is critical should not be color case hardened. Application requires a heat treating furnace, a steel crucible to hold the parts, plus high temperature handling gear and a 55 gallon drum of quenching water.

ELECTROLESS NICKEL PLATING - This is an attractive, very durable, extremely hard, metal surface plating often used to blend carbon steel parts with stainless steel, or to provide more weather and wear resistance to parts. It can be applied to matte surfaces for a dull finish or to polished metal for a bright surface. A nickel-plated surface is extremely hard, relatively frictionless, and is so tough that removal requires chemical stripping or sanding. Application requires tanks, heating units and tank agitators.

BROWNING - Traditionally reserved for muzzleloaders, slow, rust browning can be quite attractive. True, rust brown finishes are usually more durable than the quick, heat process browns, although they take much more time to do. Varying techniques can give anything from a smooth, slightly glossy finish to a "rough", non-reflective one. Since it is a rust process, bores and critically fitted parts must be protected. Application varies but may include damp cabinets, hot air guns or propane torches.

porous surface produced by Zinc Phosphate Parkerizing actually bonds the final finish to the gun for a durable, long wearing coating. A very clean process, Zinc Phosphate leaves almost no sludge buildup around the heating coils in your tank. If you are already set up for parkerizing, switching to Zinc Phosphate is a simple matter of changing chemicals. **SPECS:** Net Contents: 1 gallon (128 fl. oz./3.8 L), 1 pint (16 fl. oz./473 ml). In plastic container. Full instructions.

#082-091-128AK 1 Gal. Zinc Parkerizing 5L97Y61 \$ 129.99
#082-091-016AK 1 Pint Zinc Parkerizing 5L14Y31 . . . 19.95
Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

BROWNELLS ELECTROLESS NICKEL PLATING

Add Beautiful, Tough, Nickel Plating
Capabilities To Your Shop



You can nickel plate steel without an electric power supply transformer or cyanide salts. Finish is as lustrous as the very best electroplating but tougher, more flexible (bends 180° without damage) and more rust resistant (240 continuous hours of salt spray).

Requires a minimum of special equipment and knowledge. By following our free, thorough, step-by-step instructions, your plating will be equal in looks and quality to that of the most experienced commercial shop. Plus, electroless nickel plating has the following features:-

- Can be soldered, brazed and welded.
- Excellent resistance to corrosion.
- Plated contact surfaces give smoother action.
- No extensive after-polishing for high luster.
- Lays flat - no humps and ridges, thin edges or bulges around screw holes as with electroplated nickel.
- Even thickness overall.
- Worn parts (pins, etc.) can be built up or tightened as much as .001" and "nickel lubricated", too.

Electroless Nickel Plating requires four, easy-to-mix chemicals which we carry in concentrated form.

Electroless Nickel Plating Concentrate No. A-1 - One gallon (3.8L) of concentrate makes 5 gallons (19L) of plating solution. One gallon of mixed plating solution will plate 142 sq. inches (916 sq. cm) of metal.

Electroless Nickel Plating Additive No. B-1 - Use 4½ oz. (133ml) per gallon when mixing the Nickel Plating Solution.

Hydrochloric Acid (HCL) - Used to prepare Activator (Pick-ling Solution) for treating guns just prior to plating.

Electroless Nickel Plating Activator Additive No. C-1 - Small amounts are added to the Hydrochloric Acid to retard formation of smut on the gun while being activated.

#082-011-128AK A-1 Concentrate 1 Gal 5L179Z98 \$ 224.99

#082-012-032AK B-1 Additive 1 Qt concentrate, 5L37Z24 46.99

Note: Both chemicals above are required to make Plating Solution. Will plate from 5 large to 25 small guns.

#082-013-128AK *Gallon Hydrochloric Acid (HCL), 5L19Z77 \$ 25.99

#082-014-003AK C-1 Activator Additive, 334 lb., 5L28Z02 36.99

Note: Both chemicals above are required to make Activator solution. *Requires Additional Hazardous Materials Surcharge.

BROWNELLS ROOM TEMPERATURE NICKEL STRIPPER

Strips All Types Of Nickel Plating
Without Heating Or Agitation



Convenient, easy-to-mix and use liquid completely removes both electrolytic and electroless nickel from steel, copper and copper alloys without heating or agitation. Safe and simple to use; usual stripping time is 30 minutes to 4 hours. Re-bottle and use again and again. Gives off strong, ammonia order, use with adequate ventilation.

SPECS: Part "A"; Part "B" 1 qt.(32 fl. oz./946 ml) each. Makes 1½ gal. of stripper. Includes instructions.

#082-078-160AK Room Temperature Nickel Stripper, 5L44V95 \$ 59.99

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

BROWNELLS COLOR CASE HARDENING KIT

Produce Beautiful Color
Case Hardening
Like The Pros



The subtle shades of blue, gray, and straw on color case parts give a gun a true custom look. Cowboy Action Shooting has brought many guns out of retirement that need to have faded colors restored. We've assembled two, easy-to-use systems with all the items you need to immediately begin a case color hardening operation (except a quenching tub). **Premier Kit** includes our large capacity, 3.6 cu. ft. heat treat furnace, 11" x 4" cylindrical crucible big enough for a rifle action, 30" long crucible tongs for handling ease and safety, Kevlar gloves for protection against high temps (also sold separately), a full face shield to protect your face, 10 pounds of high carbon content wood charcoal, 25 pounds of high carbon content filler-free bone charcoal, five disposable filter masks to keep dust out of your lungs, a long shop apron, and complete instructions explaining the color case hardening process. **Standard Kit** has the same, large capacity crucible, charcoal, and supplies, only without the furnace, for those who already have a heat source capable of heating the crucible to 1450° F.
#080-951-500AK *Premier Kit 8K2179X99..... \$ 2,499.99
#080-951-501AK Standard Kit 8K382X93..... 543.99
#494-666-160AK Hi-Temp Gloves 4D00AVB 63.99
 *Note: Shipped Truck only. Please call for freight charges.

COLOR CASE HARDENING CRUCIBLE & TONGS - If you already have a furnace, these two tools will make the job easier. **Crucible** - 138 cu. in. of space lets you color case harden a rifle action or large revolver frame with space for the necessary blocking. Round shape is easy to handle with no wasted corner space. Clamping rings position the canister securely in the tongs when carrying and dumping. **Tongs** - 30" long handles keep you back, away from the furnace heat, makes grabbing the hot crucible safer and more secure.
SPECS: Steel. Crucible - 11" (28cm) high, 4" (10cm) diameter. Tongs - 30" (76cm) long.
#080-951-000AK Crucible 8K83X36..... \$ 113.99
#080-951-100AK Tongs 8K69X91 99.99
#080-951-200AK Crucible & Tongs 8K127X98 159.99
SMALL COLOR CASE HARDENING CRUCIBLE - Ideal choice for small parts. Fits small furnaces and only requires 27 cubic inches of bone per session to save you money on small jobs. Perfect for rings, slide stops, bolts, and much more.
SPECS: Steel. 5 1/2" (14cm) high, 3 3/4" (9.5cm) diameter.
#080-951-001AK Small Crucible 8K68X47..... \$ 99.97

BROWNELLS HEAT-TREATING CHARCOAL

Produces Dramatic Color
& Swirl Patterns



Wood and bone charcoal with just the right sieve size for crucible packing of steel parts to be hardened. Hi-carbon content without waxes or fillers gives brilliant color patterns. Mixing types by specific ratio provides additional control over color and pattern.
SPECS: Packed in 5 gal. bucket. **Bone** - 10x28 sieve size, 25 lb. (11 kg) weight.
Wood - #6 size, 10 lb. (4.5 kg) weight.
#084-097-031AK Bone Charcoal 5L98U15..... \$ 119.99
#084-098-013AK Wood Charcoal 5L35U15..... 43.99



BROWNELLS TEFLON®/MOLY OVEN CURE GUN FINISH

The Next Generation Of Durable,
Spray-On, Professional Gun Finishes

Now you can apply a great-looking coating with the increased durability and friction-fighting properties of Teflon® fluoropolymer resin and molybdenum disulfide to any firearm or metal part in as little as 2 hours. This is not just another spray paint. **Teflon/Moly Gun Finish** is an ultra-modern, thermo-set, spray-on, self-lubricating coating, chemically bonded to a phenolic-epoxy base so it's highly resistant to scratches and abrasion. Because the finish is baked on, you get extra benefits. As the metal heats, its pores open allowing the Teflon component to penetrate. On high-wear areas, like slide rails, the coating will eventually wear away but the Teflon will still be in the pores, lubricating and protecting. Plus, dense colors won't lighten, dissolve or break down under all common gun solvents. One application makes any properly prepared metal almost impervious to oxidation. The convenient aerosol can with its versatile cone-shaped spray, is so easy to use it's almost mistake-proof. Just degrease and abrasive-blast the part; pre-heat the part 'til it's warm to the touch, then spray and let dry. In about 15 minutes, bake in a regular kitchen oven at 350° F. for 30 minutes. As soon as the part cools, it's completely protected from rust and ready for final assembly. Perfect for restoring military rifles and parts; coating hard-to-blue, stainless steel or aluminum parts; refurbishing hunting guns and self-defense weapons, or refinishing any piece of metal that needs a durable, self-lubricating, rust-proof coating that lasts and will look great for years to come. Great hiding ability makes it a natural for quickly redoing those dinged and pitted working guns (after you get the rust out of the pits, of course). Use as a one-coat finish, or spray on several fine, thin coats and then bake. Extremely economical, one can will fully coat up to two long guns or four handguns!
SPECS: 6 oz. (170 g) wt. Remove cured coating by abrasive blasting or sanding. Teflon is a trademark of DuPont Chemical Co.

STOCK #	COLOR	PRICE
#083-048-801AK	Black	6A22X55 \$ 32.99
#083-048-806AK	Gray	6A22X55 \$ 32.99
#083-048-807AK	SS Gray	6A22X55 \$ 32.99
#083-048-808AK	Dark Park. Gray	6A22X55 \$ 32.99
#083-048-805AK	Earth Brown	6A22X55 \$ 32.99
#083-048-804AK	O. D. Green	6A22X55 \$ 32.99
#083-048-809AK	Desert Tan	6A22X55 \$ 32.99
#083-048-810AK	Coyote	6A22X55 \$ 32.99

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

REPLACEMENT NOZZLES - Nozzles can get clogged if you forget to clear them after each spraying session or, if you don't shake well, the pickup tube inside the can gets plugged up. We have two nozzles that solve these problems. **Replacement Nozzles** - Replace clogged Nozzles. **Clean Out Nozzle** - Lets full pressure blow through a plugged pickup tube to clean it out. Once clear, install a Replacement Nozzle to continue spraying.
SPECS: Pak of 12. Clean Out Nozzle not intended for spraying. These are the correct nozzles for Teflon/Moly Gun Finish.
#084-179-001AK Replacement Nozzle 6A03X29..... \$ 4.08
#084-179-004AK Clean Out Nozzle 1F02X61..... 3.29

LIQUID TEFLON/MOLY GUN FINISH - Apply our Teflon/Moly Gun Finish with an air brush or compact spray gun and save money with economical 8 fl. oz. or pint cans. Thin with **Teflon/Moly Thinner** only. One pint will finish approximately four long guns or eight handguns.
SPECS: 8 fl. oz. (237mL) or pint (16 fl. oz./473 mL). Matte finish.

LIQUID 8 oz.	LIQUID 16 oz.	COLOR
#083-149-002AK	#083-049-017AK	O.D. Green
#083-149-003AK	#083-049-018AK	Earth Brown
NA	#083-049-021AK	Stainless Steel Gray
NA	#083-049-019AK	Gray

BROWNELLS BAKING LACQUER



Tough, Durable, Epoxy-Enhanced Gun Finish
(This stuff is unbelievable!)

In as little as 60 minutes you can apply an amazingly tough, oven-cured professional gun finish that will improve the look, value, and durability of any firearm or part. This exceptional, rustproof coating can be used as a no-hassle touch-up on a single part or can be easily applied to an entire firearm. This epoxy-enhanced, oven-cured finish is available in aerosol or airbrush liquid and can be sprayed directly on clean, degreased metal with no priming required. Let dry for 10 minutes, then bake in an oven for 30-40 minutes at 300°-350° F. You'll get a uniform coating that offers exceptional resistance to salt sprays, corrosion, water, sweat, solvents, and bore cleaners. It's highly resistant to nicks, abrasions and wear. This self-leveling, run-resistant formula makes blending the initial and successive coats fast, easy, and almost mistake-proof. Touch-up coats can be sanded, re-sprayed, and re-heated without damage to the original coat. Spray over degreased bluing, plating, Parkerizing and other military coatings. Can be applied to any properly prepared metal surface that can withstand temperatures as high as 350° F without melting or warping. **Liquid Baking Lacquer** must be used with **Baking Lacquer Thinner**.
SPECS: Aerosol: 6 oz. (170 g) wt. Liquid: 8 oz. (237 mL) or 16 oz. (473 mL). Use **Liquid Baking Lacquer w/Baking Lacquer Thinner**.

AEROSOL BAKING LACQUER

STOCK #	COLOR	PRICE
#083-046-801AK	Matte Black	6A11X46 \$ 14.99
#083-046-802AK	Gloss Black	6A11X30 \$ 14.95
#083-046-803AK	Matte Clear	6A09X71 \$ 12.95
#083-046-804AK	O. D. Green	6A16X00 \$ 20.00
#083-046-805AK	Earth Brown	6A16X00 \$ 20.00
#083-046-806AK	Parkerizing Gray	6A16X00 \$ 20.00
#083-046-808AK	Dark Park. Gray	6A16X83 \$ 19.99
#083-046-807AK	Stainless Steel Gray	6A16X00 \$ 20.00
#083-046-809AK	Desert Tan	6A17X00 \$ 21.99
#083-046-810AK	Coyote	6A16X00 \$ 20.00

Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

LIQUID BAKING LACQUER

STOCK # 8 OZ.	STOCK # 16 OZ.	COLOR
#083-137-001AK	#083-037-018AK	Matte Black
#083-137-002AK	#083-037-019AK	Gloss Black
NA	#083-037-020AK	Matte Clear
NA	#083-037-028AK	Coyote
NA	#083-037-021AK	O.D. Green
NA	#083-037-022AK	Earth Green
NA	#083-037-023AK	Parkerizing Gray
NA	#083-037-024AK	Dk. Parkerizing Gray
NA	#083-037-025AK	Stainless Steel Gray

— Advise # — 8 oz. **Liquid Lacquer 6A12U77... \$ 18.74**
 — Advise # — 16 oz. **Liquid Lacquer 3H18X08... 25.99**
#083-037-026AK Baking Lacquer Thinner 3H12X30... 17.99

REPLACEMENT NOZZLES - Replacement Nozzles - Replaces clogged Nozzles. **Clean Out Nozzle** - Lets full pressure blow through a plugged pickup tube to clean it out.
SPECS: Pak of 12. Use these nozzles for Aerosol Baking Lacquer.
#084-179-001AK Replacement Nozzle 6A03X29... \$ 4.08
#084-179-004AK Clean Out Nozzle 1F02X61..... 3.29

LIQUID 8 oz.	LIQUID 16 oz.	COLOR
#083-149-005AK	#083-049-020AK	Dark Parkerizing Gray
#083-149-001AK	#083-049-016AK	Matte Black
#083-149-007AK	#083-049-022AK	Desert Tan
NA	#083-049-023AK	Coyote
— Advise # —	Teflon/Moly Liquid, 8 oz. 6A17U68 \$ 25.25	
— Advise # —	Teflon/Moly Liquid, 16 oz. 3H27X15. 38.99	
#083-049-116AK	T/M Thinner, Pint 3H13X96..... 19.99	



BROWNELLS GUN-KOTE™ OVEN CURE GUN FINISH

Genuine GUN-KOTE Spray-On/Bake-On
Finish In Convenient Aerosol or Airbrush Liquid



The world-famous, ultra-thin, friction-reducing coating that lasts and lasts can now be applied to any clean, pre-heated metal part in as little as 2 hours without the extra expense of owning an air brush. Brownells has teamed up with KG Products to produce the genuine GUN-KOTE epoxy finish in a convenient aerosol that's every bit as easy and foolproof to apply as our other great, bake-on, gun finishes. You get the quality of genuine GUN-KOTE backed by Brownells no-hassle, complete satisfaction guarantee; an unbeatable combination!
 Now you can easily apply the self-lubricating benefits of molybdenum disulfide to alloy steel, stainless steel, brass and aluminum, even properly prepared nickel plating, in just minutes. Prepare, clean and pre-heat your part to 100°, spray on Brownells GUN-KOTE and allow the part to dry. Bake the part in an oven at 300° for one hour and you're done. You've protected the metal parts of your valuable firearm from rust, corrosion, and scratches with a beautiful finish that will wear for years and help keep your gun looking just like new.

Brownells GUN-KOTE is a durable, second-generation epoxy, thermo-set resin finish that will not break down, peel or dissolve. In fact, once it's applied, the only way to remove Brownells GUN-KOTE is to abrasive blast the part. It is resistant to all known gun solvents and thinners. Each coat is approximately .0004" thick so Brownells GUN-KOTE can be used on both internal and external parts where a close-tolerance fit is required without having to worry about interference. This makes Brownells GUN-KOTE the perfect, maintenance-free coating for handgun slides and frames, shotgun receivers and magazine tubes, rifle actions and bolts, anywhere you need an ultra-thin, self-lubricating, permanent coating that protects and wears like crazy.
SPECS: Aerosol - 6 oz. (170 g) weight. Liquid - 8 fl. oz. (237 mL).

AEROSOL 6oz.	LIQUID 8 oz.	COLOR
#083-051-001AK	#083-166-006AK	Matte Black
#083-051-002AK	#083-166-001AK	Gloss Black
#083-051-003AK	#083-166-002AK	Matte Brushed Stainless
#083-051-008AK	#083-166-008AK	Matte O. D. Green
#083-051-009AK	#083-166-009AK	Matte Gray
#083-051-013AK	#083-166-013AK	Gloss Gunmetal Blue
NA	#083-166-005AK	Matte Dark Earth
NA	#083-166-007AK	Semi-Gloss Clear

— Advise # — **Gun-Kote, Aerosol, 6 oz., 3H20X50..... \$ 31.99**
 — Advise # — **Gun-Kote, Liquid, 8 oz., 3K23U69..... 31.99**
 Cannot ship outside Continental U.S. Shipped UPS or FedEx Ground only within U.S.

K-PHOS PRE-TREATMENT - Advanced phosphate liquid replaces the hot tank phosphating process to provide protection against rust and corrosion, plus a superior crystalline bonding surface for Brownells GUN-KOTE finishes. K-PHOS chemically etches and instantly seals the metal surface to prevent rust prior to painting. Application requires surfaces to be completely degreased using Brownells TCE or KG3 Solvent Degreaser. Machined surfaces can be abrasive blasted for maximum adhesion. Easy application: brush on, dip the parts, or spray on with air brush. Does not require thinning, and dries in 10 to 15 minutes for fast turn-around. Highly recommended for use with GUN-KOTE on alloy steel, stainless steel, aluminum, and sound quality nickel and chrome plating. Meets MIL-C-490A and TT-C-490 specifications.
SPECS: Liquid, clear. 8 fl. oz. (237 mL) or 16 fl. oz. (473 mL) plastic bottle.



#665-000-013AK K-Phos, 8 oz. 5F16P90..... \$ 19.99
#665-000-014AK K-Phos, 16 oz. 5F30P70..... 37.99