

# Triple-S Chemical Products, Inc.



3464 Union Pacific Avenue  
Los Angeles, CA 90023  
[www.patinas.com](http://www.patinas.com)

Toll Free: (888) 417-5214  
Tel: (323) 261-7301  
Fax: (323) 261-5567

---

## **BROWN- F**

For Ferrous Metals

### **DESCRIPTION:**

**Brown- F** is a concentrate, rapid acting chemical solution to develop a black antique finish on steel & ferrous metal surfaces at **room temperature**. The product is a mildly acidic solution containing no Chromates, Sulfides, Cyanides, Caustics or Phenols.

### **PREPARATION:**

Parts must be free of grease, alkalinity or acid when **Brown- F** is applied. Parts must be thoroughly cleaned and de-oxidized prior to blackening. **Cleaner 104** is recommended for removing heavy oils and oxidation. Do not use petroleum degreasing solvents that leave a residue on the surface. Rinse thoroughly with over flowing cold water to remove residual cleaners and dust. It is important that alkaline cleaners are completely rinsed off prior to blackening.

**IMPORTANT:** Triple- S does NOT recommend using any sort of alcohol, solvent, acid or degreaser to clean parts prior to solution application. **Cleaner 104** is a great cleaner to ready parts for **Brown- F** or even a powdered cleaner like Ajax or Comet are recommended. Use with a scotch brite pad and medium scrubbing to prepare the part then thoroughly rinse with fresh water. **Cleaner 104** run off should be contained and disposed of as per local hazmat disposal laws.

Use an acid resistant container as the immersion tank. Plastic, plastic lined, glass, or rubber lined are also suitable. **Do not** use an unlined metal container. **Brown- F** should be used as is. A uniform black finish will develop in a period of 10 to 60 seconds. Diluting the solution will yield the same end result, it will simply take a bit longer to achieve. The immersion time can be shortened or lengthened depending on the dilution rate of the solution. **For effective results, parts must be free of oil and rust.**

### **APPLICATION:**

Clean the surface with **Cleaner 104** & rinse thoroughly with cold water. Apply **Brown- F** solution with a brush, dip or spray 5-10 seconds & let it react. The desired finish will develop within seconds. Once the desired color has developed, rinse thoroughly with over flowing cold water to stop the chemical reaction. Dry the piece immediately; leaving water on the piece can cause rusting. It is recommended that a durable metal sealer be applied to the coating to provide maximum life. Triple-S offers several different options of sealers from which to choose.

### **NEUTRALIZATION:**

In order to ensure that **Brown- F** has been fully removed from the surface prior to sealing, you must neutralize the surface. In order to do so, we recommend using water mixed with a small amount of Sodium Bicarbonate (Baking Soda), ½ cup per 1 gallon of water, fully dissolved. This makes the rinse solution slightly alkaline and helps to fully neutralize the acidity of the **Brown- F** solution which is essential to prevent future rusting. Rinse this solution off thoroughly & dry.

### **SOLUTION CONTROL:**

The blackening process with **Brown- F** is a chemical reaction between the solution and metal surface. Chemical activity is gradually diminished as the solution is used but may be restored to the desired strength by adding fresh concentrate. Keep a record of additions to establish a bath history. **Brown- F** is often too concentrated to use as is and can rust pieces immediately. Diluting the solution will still yield the same color but it will take slightly longer yet the end result/color will be the same.

The information stated herein is based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. Since conditions of use are outside our control, user shall, before using, determine the suitability of the product for his intended use and user assumes all risk and liability in connection therewith.

**CAUTION:**

Avoid contact with skin or eyes. Contact with skin or eyes may cause irritation and/or burning sensation. Protective clothing, rubber gloves and a face shield should be worn when handling.

**FIRST AID:**

In case of skin contact, wash skin with large amounts of fresh water. In case of eye contact flush immediately with large amount of fresh water for at least 15 minutes and *Call a Physician Immediately!*

**DISPOSAL:**

Contaminated product, soil, water container residues and spill clean-up materials may be hazardous wastes. Avoid contact water. Comply with local, state and federal regulations concerning solid or hazardous waste disposal and or container disposal.

**BLACK F-1401 IS HAZARDOUS -- DO NOT TAKE INTERNALLY!!**

The information stated herein is based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. Since conditions of use are outside our control, user shall, before using, determine the suitability of the product for his intended use and user assumes all risk and liability in connection therewith.