

# The Gasflux<sup>®</sup> Process



THE *Gasflux* COMPANY  
[www.gasfluxusa.com](http://www.gasfluxusa.com)

# The Gasflux® Process



PUTS FLUX IN THE FLAME;  
IMPROVES BRONZE AND  
SILVER BRAZING QUALITY,  
REDUCES COSTS.

**The Gasflux® Process** is a means for adding flux in a vapor form to any fuel gas. The resultant superior fluxing and wetting action

encourages brazing alloys to flow evenly and follow the flame smoothly. The Gasflux Process produces joints of optimum strength and outstanding appearance while minimizing post braze cleanup. Productivity increases at reduced costs.

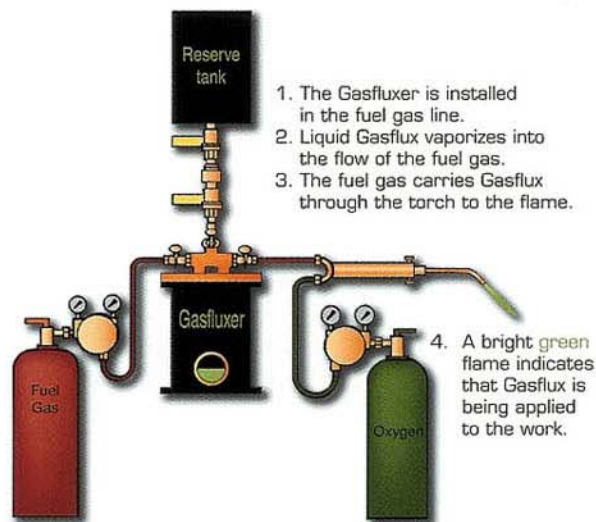
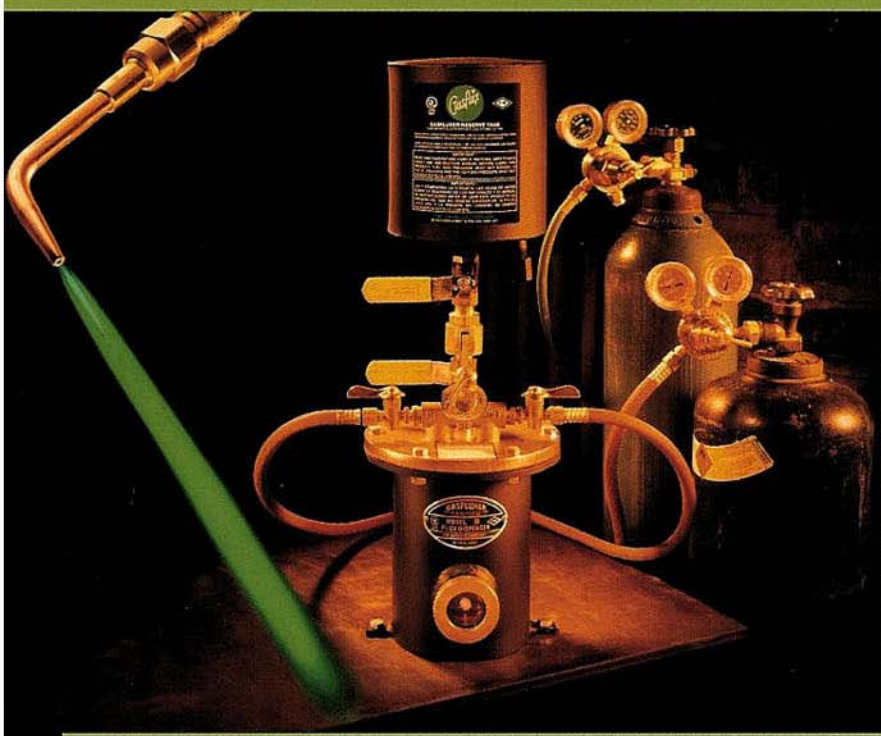
The Gasflux Process utilizes a Gasfluxer® for mixing liquid Gasflux® with the fuel gas. The Gasfluxer consists of a mixing chamber and reserve tank. It can be connected into any standard brazing manual torch operation in less than five minutes. A single Gasfluxer can also be installed for multiple torch stations as well as automatic brazing equipment.

Fuel gas is introduced into the Gasfluxer mixing chamber and is allowed to bubble through the liquid Gasflux. A simple needle bypass valve controls flow for proper flux volume. A bright green flame indicates **the flux is in the flame.**

## Silver Brazing

The Gasflux Process is used in a variety of silver brazing applications to reduce surface oxidation during the brazing process. The result is enhanced flow of the filler into the joint where it is needed most. Typical applications include, but are not limited to, air conditioning & refrigeration coils, compressors, header and valve assemblies.

The Gasflux Process works extremely well with the copper-phosphorus-silver BCuP filler metals (Ag 0-15%). The shielding action of Gasflux preserves the phosphorus content in the alloy to promote better



Gasflux®

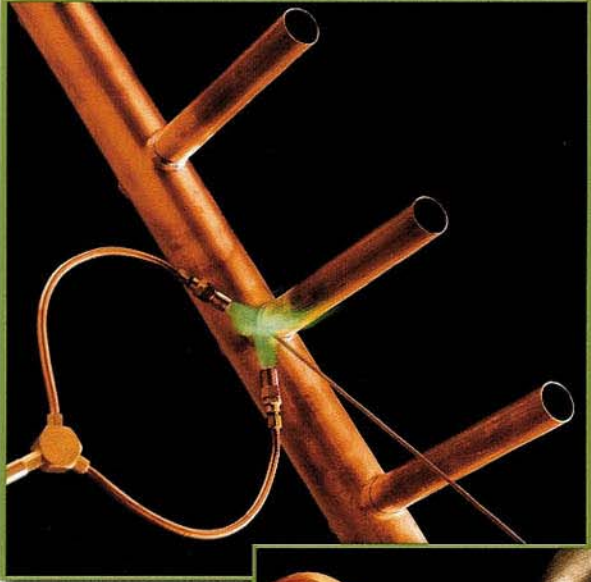
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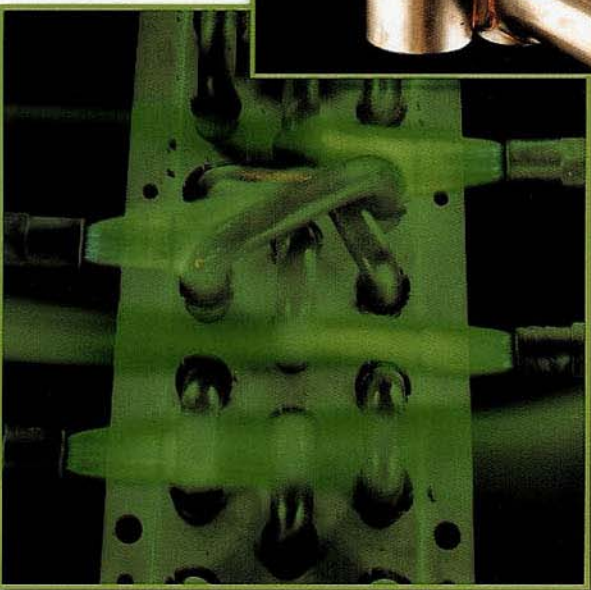
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*Silver Brazing*



*Bronze Brazing*



*Automatic Brazing*

capillary action into the joint. The results are superior wetting action, reduced alloy consumption, reduced leak rates, and joints of outstanding appearance.

The Gasflux Process works equally as well with the higher content silver BAg filler metals (Ag 35-56%). When used with a minimal amount of paste or "flux-cored" silver alloy, the additional wetting action of Gasflux yields high quality joints, reduced post braze cleanup, and joints of outstanding appearance.

**Bronze Brazing**

The Gasflux Process is used as a superior flux for brazing with copper-zinc brazing alloys. The elimination of flux coated rods, powder or paste fluxes can represent considerable cost savings in filler metal required and post brazing cleanup. Applications include automotive assembly and components, carbide tool and drilling equipment, metal and office furniture, and hospital equipment.

RBCuZn filler metals, including low fuming bronze, nickel bronze, and nickel silver, work exceptionally well with the Gasflux flame. The shielding action of Gasflux promotes the alloy to flow more readily and helps prevent overheating and boiling of the zinc. The results are joints of optimum strength with quicker braze times and little or no post braze cleanup.

**Automatic Brazing**

Flame fluxing with Gasflux can be easily adapted to a wide variety of automatic brazing equipment, from oxy-acetylene mixtures to natural gas and oxygen or natural gas and air mixtures. Special installation instructions are available for a variety of natural gas air systems. The Gasflux Process can be adapted to most systems where the brazing alloys are introduced by preformed rings, wire feed, hand feed, and pastes.

The Gasflux Company believes the above information is correct at the time of publication. All information is compiled in good faith by its writers and the Company to assist the reader in making evaluations and decisions. However, The Gasflux Company assumes no liability as to the accuracy and completeness of the information it contains. Furthermore, all information contained in this publication is given without representation or warranty, either expressed or implied. The Gasflux Company retains the right to add, modify, or delete any information without notice or obligation at any time.

# The Gasflux<sup>®</sup> Process



## BENEFITS OF THE GASFLUX<sup>®</sup> PROCESS

- Optimum Strength
- Outstanding Appearance
- No Porosity
- Low Fumes
- Minimal Post Braze Clean-Up
- Reduced Alloy Consumption

## APPLICATIONS

- Air Conditioning & Refrigeration
- Automotive
- Bicycles
- Commercial Filters
- Compressors - Hermetic
- Flexible Metal Hose
- Hospital Equipment - Wheelchairs
- Jewelry - Gold and Silver
- Metal Household Furniture
- Metal Office Furniture
- Metal Tubing
- Plumbing Goods - Brass
- Numerous Other Brazed Assemblies

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**The Gasflux Company recognizes that each brazing application is unique. We suggest contacting The Gasflux Company to discuss your application and see which Gasflux products best suit your operation.**

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*Gasflux applications*



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