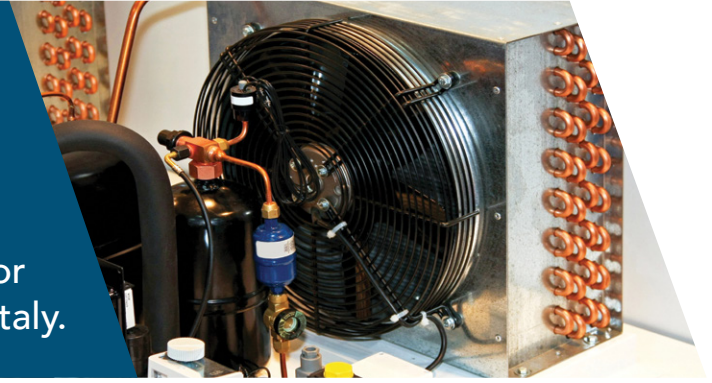


# COOLING & REFRIGERATION

Brazing solutions specifically developed for the refrigeration industry, 100% made in Italy.



**Pietro Galliani** has long been at the forefront of innovation in brazing technology for both industrial and commercial refrigeration. Our alloys, entirely manufactured in Italy, are designed to ensure superior performance and reliability in the cooling and HVAC sectors. Our wide range of brazing solutions is engineered to improve the efficiency and durability of the equipment on which they are used.

## Copper-Phosphorus & Copper-Phosphorus Silver Alloys

These alloys significantly reduce oxide formation, enhancing the joint's mechanical strength while ensuring reliability and durability. The addition of silver, along with phosphorus, further improves the mechanical performance of the joint.

### Connections

Copper to Copper,  
Copper to Brass

### Available Formats

Bare Rods,  
Wires (Coils & Spools),  
Rings,  
Preforms



### Recommended Flux

STANDARD AND BORIC  
ACID FREE FLUXES  
Format available:  
Paste and Powder

### Certification

AWS A5.8 - EN1044 - DIN  
8513 - NFA 81-362 -  
BS1845 - EN 17672 REACH  
and RoHS Compliant

## Silver-Based Alloys

These alloys are selected for their resistance to corrosion and high temperatures, making them ideal for refrigeration systems. The rods coated with flux reduce the need for post-brazing cleaning, simplifying and accelerating production processes, available in different ratio based on customer needs.

### Connections

Copper to Brass,  
Copper to Steel,  
Copper to Stainless Steel

### Available Formats

Bare Rods, Flux Coated Rods,  
Wires (Coils & Spools),  
Rings, Preforms



### Recommended Flux

STANDARD AND BORIC  
ACID FREE FLUXES  
Format available:  
Paste and Powder

### Certification

AWS A5.8 - EN1044 - DIN  
8513 - NFA 81-362 -  
BS1845 - EN 17672 REACH  
and RoHS Compliant

## Rings and Preforms

In order to meet the needs of the market, increasingly oriented towards the efficiency of production processes with automation, we are able to create, rings, preforms, pieces of wire, discs, shims. The latter include forks, lengths of wire, discs, plates, shears and bends. Rings are available with overlapping or non-overlapping ends, in single-turn or multi-turn. For larger diameters they are packaged and supplied on tubes.



# Aluminum-Based Brazing Alloys

With the increasing use of aluminum in HVAC systems due to its light weight and excellent thermal conductivity, aluminum-based alloys have become essential. These are specifically formulated to join aluminum parts, which is particularly challenging due to aluminum's high affinity for oxygen, as well as for aluminum-to-copper joints. respective alloys.

**Connections**  
Aluminium to Aluminium,  
Aluminium to Copper

**Available Formats**  
Bare Rods,  
Flux Cored Rods,  
Wires (Coils & Spools),  
Rings,  
Preformss

**Recommended Flux**  
STANDARD: corrosive  
and non-corrosive  
Format available:  
Paste and Powder

**Certification**  
AWS A5.8 - EN1044 - DIN  
8513 - NFA 81-362 -  
BS1845 - EN 17672 REACH  
and RoHS Compliant

Please check on [pietrogalliani.com](http://pietrogalliani.com) for the full range of alloys

## Fluxes

The purpose of flux is to eliminate any oxides present on the base and filler materials, improving wettability and protecting the brazed joint from further oxidation. Our range of fluxes, developed using CleanTech technology, has eliminated toxic components while simultaneously enhancing brazing quality.



## Competitive Advantages



We are **manufacturers**, not distributors—thanks to our in-house foundry, we produce all alloys ourselves, 100% Made in Italy.



Our **CuP and CuPAg alloys**, thanks to **Nanotech / Nanotech Plus technology**, provide a non-sparking effect and a porosity-free, cleaner brazing process.



Our **CleanTech fluxes**, free from toxic components, are environmentally friendly and improve brazing quality.



We provide **tailored solutions** for each customer's internal processes, along with dedicated technical support.

## Target Applications



Cooling systems



Commercial refrigeration



Industrial refrigeration



## PURCHASE CONTACTS

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