





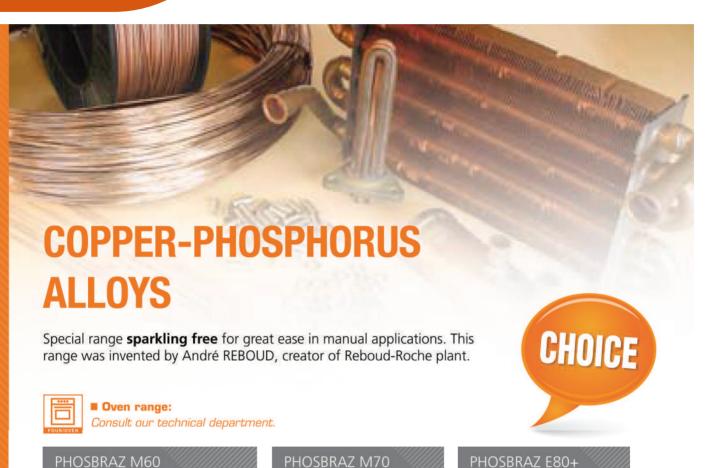




# SELECTION OF BRAZING ALLOY FOR SIMILAR & DISSIMILAR JOINTS

BASIC METAL	STEEL	ALUMINIUM	COPPER	CAST IRON (SLOW PREHEATING AND COOLING)	STAINLESS STEEL	BRASS	GALVANIZED STEEL	NICKEL	
	BRAZARGENT 5040*		BRAZARGENT 5040*	BRAZARGENT 5040*	BRAZARGENT 5040*	BRAZARGENT 5040*	BRAZARGENT 5040*	BRAZARGENT 5040*	
NICKEL	BRAZARGENT 5056*	Ħ	BRAZARGENT 5056*	BRAZARGENT 5056*	BRAZARGENT 5056*	BRAZARGENT 5056*	BRAZARGENT 5056*	BRAZARGENT 5056*	
GALVANIZED	CUPROX FC	ZINAL 4 TBW	CUPROX FC	CUPROX FC	BRAZARGENT 5040*	BRAZARGENT 5034*	CUPROX FC		
STEEL	BRAZARGENT 1520Si*	HARASIL NC 12 TBW	BRAZARGENT 5034*	BRAZARGENT 5034*	BRAZARGENT 5056*	BRAZARGENT 5040*	BRAZARGENT 5034*		
DD 4 00	BRAZARGENT 5034*	ZINAL 4 TBW	BRAZARGENT 5034*	BRAZARGENT 5040*	BRAZARGENT 5040*	BRAZARGENT 5034*			
BRASS	BRAZARGENT 5040*	HARASIL NC 12 TBW	PHOSBRAZ AG100 FC	BRAZARGENT 5056*	BRAZARGENT 5056*	PHOSBRAZ AG100 FC			
STAINLESS	BRAZARGENT 5040*	ZINAL 4 TBW	BRAZARGENT 5040*	BRAZARGENT 5040*	BRAZARGENT 5040*			•	
STEEL	BRAZARGENT 5056*	HARASIL NC 12 TBW	BRAZARGENT 5056*	BRAZARGENT 5056*	BRAZARGENT 5056*				
CAST IRON	CUPROX FC		CUPROX FC	CUPROX FC					
PREHEATING AND COOLING)	BRAZARGENT 5040*		BRAZARGENT 5040*	BRAZARGENT 5040*					
COPPER	CUPROX FC	ZINAL 4 TBW	PHOSBRAZ M70 (standard joining)				CHO	10=	
CUFFER	BRAZARGENT 1520Si*	HARASIL NC 12 TBW	PHOSBRAZ M60 (special for pitting)				CHO	IUE	
ALUMINIUM	ZINAL 4 TBW	ZINAL 4 TBW							
ALUIVIINIUIVI	HARASIL NC 12 TBW	HARASIL NC 12 TBW		12	16			Za.	
STEEL	CUPROX FC		466	N. T.	REF.*: To be		G-FLUX, as f	lux coated	
OTEL	BRAZARGENT 1520Si*		320	30	REF.: flux cored or self-fluxing alloy				
6	3	13	-			1	1. 1	Park.	
BRAZARGENT®, CUPROX®, PHOSBRAZ® ARE REGISTERED TRADEMARKS.									





★ Standard fluidity★ Standard gap

# PHOSBRAZ M60

Alloy recommended for large gap joining, **low fluidity**, self-fluxing on red coppers (without addition of flux).

■ Standard colour: copper.

★ Low fluidity

★ Wide gaps up to 2 mm

■ Brazable grades: Coppers.

### MAIN APPLICATIONS

★ Brazing of Copper-Copper connections, mainly in plumbing industry.

Presentation	Ø (mm)	Length (mm)	Kg/case	Ref.
DADE	2.0	500	1	M6B20500R T18O
BARE			5	M6B20500R T20O
DADE	3.0 500	F00	1	M6B30500R T18O
BARE		5	M6B30500R T20O	

SPECIAL FITTING/ COPPER

★ High fluidity★ Very small gap



# PRODUCT ADVANTAGES:

- · Low fluidity
- · Good control in joint filling
- «Flexible» alloy
- Ideal for wide gaps up to 2mm





RECOMMENDED HEATING METHOD:







### **PHOSBRAZ M70**

Alloy recommended for standard joining (sleeves-fittings). Good fluidity. Self-fluxing on red coppers (without using flux).

■ Standard colour: copper.

■ Brazable grades: Coppers.

### MAIN APPLICATIONS

★ Brazing of Copper-Copper connections, principally in the plumbing field.

Presentation	Ø (mm)	Length (mm)	Kg/case	Ref.
BARE	2.0	500	1	M70B20500R T18O
			5	M70B20500R T20O
BARE	3.0	E00	1	M70B30500R T18O
DANE		500	5	M70B30500R T20O





### PRODUCT **ADVANTAGES:**

- · Good fluidity
- · High speed working
- Universal alloy in plumbing







RECOMMENDED HEATING METHOD:





# PHOSBRAZ E80+

Alloy recommended for small gaps with deep & close overlap between tubes. Product with high fluidity. Self-fluxing on red coppers (without addition of flux).

■ Standard colour: copper.

■ Brazable grades: Coppers.

### MAIN APPLICATIONS

 $\bigstar$  Brazing of copper to copper and copper to brass connections, mainly in plumbing.

	Presentation	Ø (mm)	Length (mm)	Kg/case	Ref.
	BARE 2	2.0	500	1	E8+B20500R T18O
		2.0	500	5	E8+B20500R T20O
DADE	00 5	500	1	E8+B30500R T18O	
	BARE	3.0 500	5	E8+B30500R T20O	





### PRODUCT **ADVANTAGES:**

- · High capillarity on small gaps
- Low brazing temperatures
- Big overlaps
- · Can be used with an aero-propane flame\*





### **RECOMMENDED HEATING METHOD:**







\*Subject to testing, under customer responsibility,



# COPPER - PHOSPHORUS - SILVER ALLOYS



### PHOSBRAZ AG20+

- **★** Universal
- **★** Economical

### PHOSBRAZ AG50+

- ★ Easy to use
- ★ Good resistance to mechanical vibrations

### PHOSBRAZ AG60

★ Copper pipes

### PHOSBRAZ AG100 FLUX COATED

- ★ Copper-Brass assembly
- ★ Excellent technical and economical compromise

### PHOSBRAZ AG150

★ Electrical connections

## PHOSBRAZ AG20+

This alloy recommended for standard joining with a standard fluidity and is self-fluxing on red coppers. This shade has 2 % Ag in addition to Phosphorus for a better capillarity.

■ Brazable grades: Coppers.

### MAIN APPLICATIONS

 $\bigstar$  Copper-Copper joining in sleeve coupling and fittings, heat exchangers (hot/cold) and ventilation systems.

Presentation	Ø (mm)	Length (mm)	Kg/case	Ref.
DADE	2.0	500	1	AG20+B20500R T18O
BARE			5	AG20+B20500R T20O
DADE	0.0	3.0 500	1	AG20+B30500R T18O
BARE	3.0		500	5

UNIVERSAL / COPPER 2 % Ag



# PRODUCT ADVANTAGES:

- Versatile alloy
- · Good fluidity
- The most economical of the Copper-Phosphorus-Silver range
- Easy to use





**RECOMMENDED HEATING METHOD:** 







### PHOSBRAZ AG50+

Alloy with 5% Ag in addition Phosphorus for a better capillarity is recommended for all assemblies and particularly for air conditioning. Its main features are: good ductility and very good fluidity. This product is self-fluxing on red coppers.

■ Brazable grades: Coppers.

### MAIN APPLICATIONS

★ Copper-Copper joining in sleeve coupling and fittings, heat exchangers (hot/cold) and ventilation systems and compressors.

Presentation	Ø (mm)	Length (mm)	Kg/case	Ref.
BARE	2.0	500	1	AG50+B20500R T18O
			5	AG50+B20500R T20O
BARE	3.0	500	1	AG50+B30500R T18O
			5	AG50+B30500R T20O

SPECIAL COLD / VIBRATIONS / COPPER 5% Ag



# PRODUCT ADVANTAGES:

- Resistance to mechanical vibrations and water hammer, better than a CuP
- Very good fluidity
- Brazing temperature is lower than AG20





**RECOMMENDED HEATING METHOD:** 





### PHOSBRAZ AG60

Copper-Phosphorus alloy with 6% Ag for hard brazing of red coppers. It is recommended for gas systems (except local regulation) and piping systems. It can be used with propane gas\*.

■ Standard colour: copper.

■ Brazable grades: Coppers.

#### MAIN APPLICATIONS

\* Piping and combustible gas installations.

Present	ation	Ø (mm)	Length (mm)	Kg/case	Ref.
BARE	_	2.0	500	1	AG60B20500R T18OA
	<b>-</b>			5	AG60B20500R T20OA
BARE	_	3.0	500	1	AG60B30500R T18OA
	C			5	AG60B30500R T20OA

PIPING / COPPER 6 % Ag



# PRODUCT ADVANTAGES:

- High fluidity
- · Low melting temperature
- Excellent wetting properties and capillarity



**RECOMMENDED HEATING METHOD:** 







\*Subject to testing, under customer responsibility.



### PHOSBRAZ AG100

### FLUX COATED

Alloy with 10% Ag recommended for Copper-Copper join-

ing, Copper alloys (Brass...). Very good fluidity. This alloy of exceptional performance represents the "Global economic solution" for Copper/Brass assemblies.

■ Brazable grades: Copper and Copper alloys (ex: Brass).

### MAIN APPLICATIONS

★ Brazing of brass connections on copper piping.

Presentation	Ø (mm)	Length (mm)	Kg/ case	Ref.
WHITE	2.0 500		1	AG100E20500B/S25AGT19O (Printed Rods)
COATING		500	5	<b>AG100E20500B/S25AG T200</b> (Printed Rods)

COPPER/BRASS ASSEMBLIES 10 % Ag



# PRODUCT ADVANTAGES:

- Alloy ready for use
- Excellent compromise between fluidity & ductibility
- Excellent wetting properties
- Can be used with propane gas\*



#### RECOMMENDED HEATING METHOD:





\*Subject to testing, under customer responsibility.

### PHOSBRAZ AG150

Alloy recommended for assembly with intermediary gap. Standard fluidity, Self-fluxing on red coppers. Silver content: 15%.

■ Brazable grades: Coppers.

### MAIN APPLICATIONS

★ Copper-Copper assemblies, Electric motor production, Electrical connections, air conditioning.

Presentation	Ø (mm)	Length (mm)	Kg/case	Ref.
DADE	2.0	500	1	AG150B20500R T18O
BARE	2.0		5	AG150B20500R T20O
DADE	3.0	E00	1	AG150B30500R T18O
BARE		500	5	AG150B30500R T20O

ELECTRICAL CONNECTIONS / COPPER 15 % Ag



# PRODUCT ADVANTAGES:

- Excellent electrical conductivity
- Ductile alloy
- Very good mechanical resistance
- Allows the filling of important gaps







#### **RECOMMENDED HEATING METHOD:**



