Copper and Brass Brazing Alloys

A broad selection of alloys for a variety of copper and brass applications.

Superior Advantages

- High strength
- Lower cost compared to silver alloys
- Good color match

Applications

- Electrical contacts
- Copper wire splicing
- Brass and bronze fittings
- Copper pipes
- Copper to steel

Certanium® Alloys

83F Brazing Alloy

Brass-Bronze-Copper-Cast Iron-Steel

Flux Coating Color: Orange

Tensile Strength: 65,000 PSI

Hardness: 110-120 Brinell

Bonding Temperature: 1,500°F to 1,600°F (815°C to 871°C)

Recommended Flux: 950 (if needed)

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
3/32 x 18	**P14400**	5
1/8 x 18	**P14410**	5

Cronatron Alloys

23F Brazing Alloy

Versatile and flux-coated

Flux Coating Color: Blue

Tensile Strength: Up to 68,000 PSI

Bonding Temperature: 1,400°F to 1,600°F (760°C to 871°C)

Recommended Flux: F21 (if needed)

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
3/32 x 18	**CW1003**	5
1/8 x 18	**CW1002**	5

30F Brazing Alloy

Thin-flowing, maximum strength

Flux Coating Color: Pink

Tensile Strength: 100,000 PSI

Temperature: 1,300°F to 1,600°F (704°C to 871°C)

Recommended Flux: F21 (if needed)

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
1/16 x 18	**CW1836**	5
3/32 x 18	**CW1006**	5
1/8 x 18	**CW1005**	5
3/16 x 18	**CW1004**	5

44 Brazing Alloy

Silver Solder Substitute

Brazing Range: 1,350°F to 1,550°F (732°C to 843°C)

Recommended Flux: F40 (if needed)

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
1/16 x 36	**CW1838**	2
3/32 x 36	**CW1012**	2
1/8 x 36	**CW1837**	2

45 Brazing Alloy

Withstands vibration, shock and impact

Brazing Range: 1,300°F to 1,450°F (704°C to 788°C)

Recommended Flux: F40 (if needed)

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
1/16 x .050 x 18	**CW1858**	1
1/8 x .050 x 18	**CW1013**	1

46SP Brazing Alloy

Fill gaps without affecting joint strength

Brazing Range: 1,325°F to 1,500°F (718°C to 815°C)

Recommended Flux: F40 (for dissimilar)

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
1/16 x .050 x 20	**CW5763**	1
1/8 x .050 x 20	**CW5764**	1

47SP Brazing Alloy

Excellent ductility and conductivity

Brazing Range: 1,300°F to 1,500°F (704°C to 815°C)

Recommended Flux: F40 (for dissimilar)

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
1/16 x .050 x 20	**CW5765**	1
1/8 x .050 x 20	**CW5766**	1

Dissimilar Brazing Alloys

Easily joins white and pot metals.

Cronatron Alloys

Superior Advantages

- Lead- and cadmium-free
- Extremely low melting point
- Two times stronger than ordinary solder

Applications

- Air conditioning and refrigeration units
- Brazing/soldering of copper to aluminum, brass to steel, stainless to zinc, etc.

53 Brazing Alloy

Low temperature, dissimilar

Tensile Strength: 17,500 PSI

Application Temperature: 360°F (182°C)

Recommended Flux: F53

Dia. x Length (Inches)	Part No.	Pkg. Qty. (Lbs.)
1/16 spooled	**CW1842**	1
1/8 x 18	**CW1017**	2