



Nickel Silver (RBCuZn-D)

Unibraise Nickel Silver is a low fuming, cadmium free bronze. It is an excellent replacement for high cost silver brazing alloys when higher brazing temperatures are acceptable. The weld deposits of Unibraise Nickel Silver have very high tensile strength, good ductility and excellent corrosion resistance. Unibraise Nickel Silver weld deposits are also machinable and work-harden when put into service. Unibraise Nickel Silver is available as bare or pre-flux coated rod. Preheating may be desired for some applications. A neutral or slightly oxidizing flame is recommended.

APPLICATIONS

- Brazing Tungsten carbides, copper alloys, nickel alloys, stainless steels & carbon steels.
- Brazing or oxyacetylene welding of steel or cast iron where good color match is desired.
- Building-up or overlaying worn parts such as gear teeth, bearings and valve seats.

Typical Chemical Composition

Copper	46.00 – 50.00
Zinc	Balance
Nickel	0.90-11.00
Lead	0.05
Aluminum	0.01
Silicon	0.04 – 0.25
Phosphorus	0.25
Others	0.50 max.

Note: Copper contains Silver. Copper + Named elements = 99.5% min.

Typical Mechanical Properties

Tensile Strength	70,000 psi, Avg.
Elongation, in 2 in.	25%
Brinnell Hardness	120
Working Temperature	1700°-1800°
Melting Point	1680°F
Solidification	1665°F

Specifications

AWS A5.8 / ASME SFA5.8 Class RBCuZn-D

Available Sizes

1/16" (1.6mm), 3/32" (2.4mm), 1/8" (3.2mm), 5/32" (4.0MM), 3/16" (4.8MM), 1/4" (6.4MM), 5/16" (8.0MM), 3/8" (9.5MM), 1/2" (13.0MM)

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