



Nickel Silver (RBCuZn-D)

Description: 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 Nickel Silver have very high tensile strength, good ductility and excellent corrosion resistance. Nickel Silver weld deposits are also machinable and work-harden when put into service. 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)

Notice: The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

Edmonton, AB Office
8804 51 Ave
Edmonton, AB T6E 5E8
Phone: 780-468-1777
Fax 780-468-1758

Chilliwack, BC Corporate
Unit A, 44636 Yale Rd West
Chilliwack, BC V2R 0G5
Phone: 604-701-6533
Fax 604-701-6559

Surrey, BC Office
Unit 11, 13085 115 Ave
Surrey, BC V3R 4S7
Phone: 1-877-233-1378
Fax: 604-701-6559

Saskatoon, SK Office
Unit#8, 401 Pakwa Place
Saskatoon, SK S7L 5Z9
Phone: 306-974-9750
Fax 306-974-9752

Prince George
1557 South Lyon St
Prince George, BC V2M 1T3
Phone: 250-562-8922
Fax: 250-562-8927