

Nickel Bronze

Classification

AWS.A5.8 RB CuZn-D
AS 1167.1 R CuZn-D

Description

TALWELD Nickel Bronze is a bare rod copper-zinc alloy containing 10% Ni. It is used for high strength brazing or oxyfuel (oxyacetylene) gas welding of steel, cast iron, copper-bronze and nickel alloys. TALWELD Nickel Bronze produces deposits that have excellent wear resistance and work harden in service. The deposits are easily machinable. This alloy finds use in attaching carbide tungsten tips in cutting tools. It can be used with standard oxy-fuel torches - a brazing flux is recommended for use with this alloy.

Chemical Composition of Solid Wire

Approx. Melting Point = 920 °C

Cu	Zn	Si	Ni	Al	P	Pb	Total Others
46.0 – 50.0	Bal.	0.04 – 0.25	9.0 – 11.0	0.01 Max.	0.25 Max.	0.05 Max.	0.50 Max.

Typical Mechanical Properties of Deposit

Tensile strength	Yield strength	Elongation
480 MPa	260 MPa	21%

Packaging

Diam. (mm)	1.6	2.4
Pack	5kg	5kg
Length (mm)	1000	1000

Diam.	5kg Pack
1.6mm	CTCNICKELBRO16
2.4mm	CTCNICKELBRO24

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