

NiAg Carbide



SPECIFICATION/<u>CLASSIFICATION</u>: Internal

Description/Application:

NiAg Carbide is a composite rod comprised of nickel silver alloy and 60-70% suspended tungsten carbide chips providing excellent wear resistance. This matrix yields ultimate outstanding quality needed in many abrasion/impact wear and cutting/ drilling tools applications. Often used on earth moving, oilfield, mining, drilling/milling/boring/cutting tools and many other applications. Make sure the surface is free of contaminates and clean before applying bronze brazing flux. Concentrating heat on base metal with a neutral flame while until you reached a dull red to about 1650F and deposit a thin layer Ni-Ag alloy with a circular rubbing motion. Follow the tinning application with the same technique while using the end of the NiAg rod to arrange carbides or add flux as required for your application.

Typical Filler Rod Chemistry in weight percent:					NiAg Matrix and carbide listed separately				
Cu	Ni	Si	Zn			W	Со	С	Fe/Ni
48	10	.2	balance	 Ni-Silver 	Tungsten Carbide 🕨	90.0	10.0	6.0	2.0
Typical Mechanical Properties of Nickel Silver:									
Tensile Strength (psi) up to 120,000					Yield Str	65-75,0	65-75,000		
Ni-Silver hardness				220 BHN	Carbide ha	RA 89-92	RA 89-92		
Physical data: on Ni-Silver									
				Solidus	16909				
				Liquidus	1715				
ļ				Rod size:	Rod size: 1/2" x 3/8 x 18" long				
Particle S					3/16" x 1/8" or 3/16" x 1/4"				
842 Oak Grove Rd. 40 N					Messina Dr.		193	30 Carlos	Ave.
Kings Mountain, NC			5994 Griggs Rd. Br		aintree, MA	258 S. Kitley Av	e. (Ontario, CA	
28086			Houston, TX		02184	Indianapolis, IN	I	91761	
704-739-4115		77023 78		31-849-1200	46219	9	909-923-2167		
Fax 704-739-6116				Fax 781-849-1270			Fax	909-923	-7016
www.weldcotemetals.com									
Weldcote Metals believes this data to be accurate and to reflect qualified opinion regarding research.									

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All parameters are suggested as basic guidelines and will vary depending on joint design, number of passes, and other factors.