



SUPERFLOW[®] Tungsten Carbide

U.S. ALLOY CO.
dba Washington Alloy
7010-G Reames Rd.
Charlotte, NC 28216
www.weldingwire.com

WASHINGTON ALLOY'S
Quality Management System is
Certified to **ISO 9001:2008**
Cert # 05-R0925



ALLOY DESCRIPTION AND APPLICATION:

A composite matrix rod with nickel silver alloy and 60-70% tungsten carbide chips with excellent wetting properties. Our unique carbide particles are the ultimate quality that will offer outstanding resistance to wear caused by abrasion and impact as found in many cutting, wear and drilling applications. This Hardfacing rod may be found used on earth moving equipment/tools, oilfield/mining, drilling/milling/boring/cutting tools and many agricultural needs to name a few. Always ensure the surface is free of oxides and clean prior to adding a bronze brazing flux. Using a Neutral flame heating the base metal to about 1700F and apply the alloy with a rubbing motion while using the end of the rod adding flux and placing the carbides in the required area. Pre-coating the surface with Ni-Silver may help as well.

CHEMICAL COMPOSITION, Weight Percent: single values are maximum

Ni-Silver		Tungsten Carbide	
Copper	46-48	Tungsten	90.0
Zinc	35-50	Cobalt	10.0
Nickel	8-12	Carbon	6.00
Silicon	1.00	Iron+Nickel	2.00
Other Elements on both		0.50	

PHYSICAL DATA: on Ni-Silver

Solidus	1690°F (921°C)
Liquidus	1715°F (935°C)
Tensile	up to 100 KSI

AVAILABLE SIZES:

TU TC = 18" Rods of 1/8 x 1/16", 1/4 x 3/16", 3/8 x 5/16"

SPECIFICATIONS: Washington Alloy Internal

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