

# 30/40 TUNGSTEN CARBIDE ALLOY

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



## ALLOY DESCRIPTION AND APPLICATION:

Bare 30/40 is mild steel tube filled with about 60% mixture of tungsten carbide granules & alloy steel in a steel tube used for extreme sever abrasion and low impact. Used for metal to earth application and found in cane knifes, plows, agriculture teeth and poinys, mining bits, horseshoe and many other abrasion needs. Using a 3X excess acetylene flame of the inner cone sweating the filler deposit to the base metal while maintaining a minimum dilution. One layer and a maximum of 900°F working temperature are recommended. Avoid pudding during process.

#### **CHEMICAL COMPOSITION, Weight Percent:**

Steel tube with 60% mixture of tungsten carbide granules & alloy steel

#### PHYSICAL DATA: Typical as deposited

Deposit with larger particles or coarse size will improve cutting while the smaller mesh/finer mesh will yield better wear or used where abrasion increases. Commonly the smaller the diameter of the filler rods the finer the mesh. Sandpaper deposits texture found when using the 30-40 mesh while the 5-10 mesh gives larger deposited particles for maximum non-slipping finish.

9-10

Hardness Moh's scale

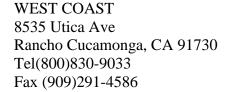
### **AVAILABLE SIZES:**

TU 30/40 =Bare Rods of 1/8, 5/32, 3/16, 1/4 Other sizes available – please inquire

#### **SPECIFICATIONS:**

#### Internal

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