

# T CARBIDE 3000

TIG / Oxy-acetylene Welding Rod - Hardfacing Applications

### Standards

EN 14700	T Ni20
TS EN 14700	T Ni20
DIN 8555	G 21-UM-55-CG

### Properties and Applications

Flexible rod for hardfacing by oxy-gas welding. Consist of a small diameter pure nickel core wire thickly coated tungsten carbides in a Ni-Cr-B-Si matrix. The weld metal is a heterogeneous metal composed of tungsten carbides ( $W_2C, WC$ ) distributed in a hard and tough matrix. Shows extremely high abrasion resistance. It has got a quiet melting and good wetting. Especially used for hardfacing of mixers, crushing mills, die blades and heads, sand foundry equipment, drilling tricones.



### Typical Applications



### Typical Chemical Values of Weld Metal

Type of Analysis	C	Si	Cr	Ni	W	B
Weld Deposit	2.50	1.30	2.60	33.00	60.00	0.60

### Typical Mechanical Values of Weld Metal

Test Condition	Matrix (HRC)	W <sub>2</sub> C, WC (HV)
As welded	40-45	3000

### Application Information

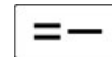
#### Welding Positions



#### Welding Parameters & Efficiency

Diameter x Length (mm)
5.00x450

#### Polarity:



### Packaging Information

Product Code	Diameter x Length (mm)	Quantity per Box	Box Gross Weight (kg)	Boxes per Outer Box	Outer Box Gross Weight (kg)	Packaging Type
28131SVKM2	5.00x450	3 kg	2.80	4	11.40	VAC Box

### Storage & Re-Drying Information

Shouldn't be exposed to high statical load and impact.  
It should be stored in a dry room (relative humidity < 50%, room temperature > 20°C) on wooden pallets.  
It has to be dried at 150°C for 1 hour.

