

## Universal Wire Works No. 6 Cobalt Alloy Welding Wire

Category : Metal , Nonferrous Metal , Cobalt Alloy , Superalloy

### Material Notes:

Universal No. 6 is a cobalt-chromium-tungsten alloy suited for applications requiring extreme impact resistance at elevated temperatures, exhaust valve contact surfaces, hot and cold trimmer dies and pump shafts are some examples of No. 6 uses. Hardness characteristics remain intact under operation temperatures to 1500°F. The excellent resistance to impact and high temperatures allow Universal No.6 to be used in severe applications where a hardness of Rc 40 - 47 is required. Machinability: Use carbide tools. Information provided by Universal Wire Works for their line of welding wire and filler metal.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Universal-Wire-Works-No-6-Cobalt-Alloy-Welding-Wire.php](http://www.lookpolymers.com/polymer_Universal-Wire-Works-No-6-Cobalt-Alloy-Welding-Wire.php)

Physical Properties	Metric	English	Comments
Density	8.39 g/cc	0.303 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	40 - 47	40 - 47	
Tensile Strength, Ultimate	793 MPa	115000 psi	
Compressive Strength	1540 MPa	224000 psi	

Thermal Properties	Metric	English	Comments
Melting Point	1270 °C	2320 °F	
Maximum Service Temperature, Air	816 °C	1500 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.0 %	1.0 %	
Chromium, Cr	28.5 %	28.5 %	
Cobalt, Co	60 - 61 %	60 - 61 %	As Remainder
Iron, Fe	2.0 %	2.0 %	
Molybdenum, Mo	<= 1.0 %	<= 1.0 %	
Nickel, Ni	2.0 %	2.0 %	
Silicon, Si	1.0 %	1.0 %	
Tungsten, W	4.5 %	4.5 %	

## **Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**