

🔑 宝鸡难熔金属开发公司

Bao Ji Refractory Metal Developer Co., Ltd

Office Address: F10 Ronking International Mansion, No. 61 GaoXin Road, Bao Ji Shaan Xi, China Production Address: Niejiawan, Bayu Town, Webin District, BaoJi, Shaanxi China
Tel: 0086-917 3315889
Fax: 0086-917 3313889

TUNGSTEN ELECTRODES PRODUCTS

PURE TUNGSTEN

AND CONTAINING VARIOUS OXIDE ADDITIVE TUNGSTEN ELECTRODES

Products properties:

—High melting point

♦ Range of use:

- Protecting arc welding
- —With inert gases and plasma
- —Jointing, cutting, spraying and smelting

Steady electric arc

—Without self-Consume

♦ Quality of surface:

Smooth, clear, no defect, no greasy dirt and other impurity.

The end surface of electrodes should be even, smooth and no burrs, the section has no internal defect.

♦ Chemical Composition:

Execute ISO 6848 international and AWSA5-95

-	Designation	W%	Oxide%	Impurity%	Color Mark
WP	WP	99.95		< 0.05	
	WT10	Balance	ThO ₂ 0.8~1.2	<0.2	
WT	WT20	Balance	ThO ₂ 1.8~2.2	<0.2	
VV I	WT30	Balance	ThO ₂ 2.8~3.2	<0.2	
-	WT40	Balance	ThO ₂ 3.8~4.2	<0.2	
	WL10	Balance	LAO2O3 0.9~1.2	<0.2	
WL	WL15	Balance	LAO2O3 1.3~1.7	<0.2	
	WL20	Balance	LAO2O3 1.8~2.2	<0.2	
WC	WC20	Balance	CeO ₂ 1.8~2.2	< 0.2	

♦ Specification and Tolerance:

	Diameter (mm)	Diameter tolerance (mm)	Length tolerance (mm)	Flat degree
53.4	Ф0.2~Ф2.5	±0.05	. 1	Not large 0.50/ largeth of electrodes
	Ф2.5~Ф25	±0.1	±l	Not large 0.5% length of electrodes

THORIATED TUNGSTEN ELECTRODES

- ♦ The first selection material for high quality welding.
- ♦ Widely used for welding carbon steel, stainless steel, nickel alloy, titanium metal and as an additive oxide electrode
- ✦ Has much more advanced comprehensive welding property than the properties of pure tungsten electrode and other additive oxide electrodes.
- ♦ Can be operate easily and electric current load is big
- ♦ Can produce arc easily and steadily, the gap of the breaking arc is big, loss less and long life
- ✦ Has much higher recrystallizing temperature, much better conductivity and
 better mechanical cutting property

THORIATED TUNGSTEN WIRES

- ♦ WTH7 can be used for making electron tube, the hook of emitting tube, spring, high temperature electrode and negative electrode of light air discharge.
- ♦ WTH10, WTH15, WTH20, WTH40can be used for making a negative electrode and railing electrode of electrode and filament which is against vibration.

http://www.refractory-metal.com

♦ Specification and Tolerance:

ŝ	Designation	WTH7	WTH10	WTH15	WTH20	WTH40
	Condition	R				
	Size	Ф0.15mm~Ф0.16mm				

Diameter mm	200mmweight o	of tolerance%	Diameter of tolerance%	
	I	II	I	II
Ф 0.2~Ф 0.35	±1.5	±2.0	_	_
>Ф 0.35~Ф 1.6	_	_	±1.0	±2.0

♦ Chemical Composition:

PMP.

Designation	W% min	Oxide%	Impurity%	Each Impurity
WTH7	98.90	0.70~0.99	<0.10	<0.01
WTH10	98.41	1.00~1.49	<0.10	<0.01
WTH15	97.91	1.50~1.99	<0.10	<0.01
WTH20	97.64	1.99~2.50	<0.10	<0.01
WTH40	95.69	3.90~4.2	<0.10	<0.01

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♦ Tungsten electrode production flow chart:



♦ Real scene shooting of the workshop



♦ Products show: Yungsten Electrode 钨电极 10 Pieces ANSI/AWS A5.12-98 ISO 6848 Yungsten Electrod 钨电极 WC20 ⊄3.2×175 10 Pieces ANSI/AWS A5.12-98 ISO 6848 http://www.refractory-metal.com