

# Crystalline Tungsten Powder

TECHNICAL DATA



## DESCRIPTION

Kennametal manufactures high-quality crystalline tungsten powders using an automated reduction of doped tungsten oxide.

## APPLICATIONS

We manufacture tungsten powder for use in electrical contacts, particle guns, catalysts, and as the beginning material in tungsten mill products and wire. Crystalline tungsten powders are mixed with alloy binder powders to make shoulder powder for oil and gas applications. It is also used as a replacement material for lead and golf club weights, and more.

## TYPICAL PHYSICAL PROPERTIES

Type	Scott Density g/in <sup>3</sup>	Mesh Analysis			
		Mesh	Weight %	Mesh	Weight %
-60 / +325	95 - 135	+60	0 - 10	-325	0 - 10
-100 / +325	140 - 160	+100	0 - 10	-325	0 - 10
-200 / +325	140 - 160	+200	0 - 10	-325	0 - 10
-325	130 - 155	+325	0 - 10	-325	90% min

**Note:**

Tap density analysis is available on request

Particle size distribution by Malvern is available on request

Customer specific Scott density ranges are available

Customer specific mesh ranges are available [60 / 100 / 170 / 200 / 230 / 270 Mesh]

## TYPICAL TRACE ELEMENT CHEMICAL ANALYSIS

Typical Element (Weight %)											
Type	AL	Co	Cr	Cu	Fe	Mo	Ni	K	O <sub>2</sub>	C <sub>T</sub>	W
-60 +325	≤0.005	≤0.01	≤0.02	≤0.005	≤0.03	≤0.02	≤0.02	≤0.002	≤0.08	≤0.010	99.9
-100 +325											
-200 +325											
-325	≤0.005	≤0.02	≤0.03	≤0.01	≤0.1	≤0.03	≤0.03	≤0.002	≤0.1	≤0.02	99.8

All powder is commercially uniform in purity. The chemical and physical analyses are determined for each production lot of powder by using commercially accepted methods.

The results of all relevant tests are reported to the customer on a Certificate of Analysis.

## PACKAGING

All material is packed in polyethylene bags inside the following containers:

3.5 Gallon Pail (up to 50kg per container)

17 Gallon Metal Drum (up to 250kg per container)

## CUSTOMER SERVICE CONTACT

T: 800-221-4273

E-mail: [k-mdsn.inside-sales@kennametal.com](mailto:k-mdsn.inside-sales@kennametal.com)

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