

TUNGSTEN METAL POWDER W

Application

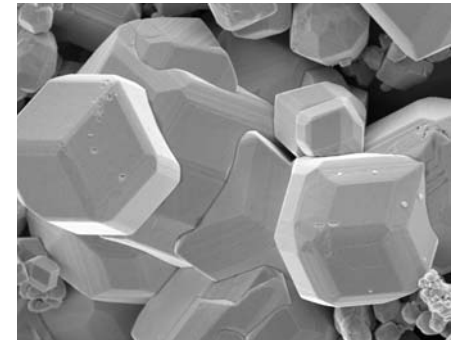
Tungsten metal powder is used for the production of tungsten carbide, electrical contacts, welding electrodes.

Due to its specific gravity tungsten is the major constituent of high density alloys for e.g. counter balances and military applications.

Tungsten is also the basis for WF_6 production, required in semiconductor industry.

It is produced from tungsten oxide in fully automatised hydrogen reduction furnaces.

On request the material can be treated for improved compaction properties. Pre-doping with Ni and/or Zr on request



2µm

Chemical Specification

	ppm		ppm	FSSS/µm	O %
Al	10 max	Mg	10 max	< 1	0.40 max
Ca	10 max	Mo	70 max	1.4 – 2.0	0.20 max
Cr	20 max	Na	15 max	2.5 – 5.0	0.10 max
Cu	5 max	Ni	20 max	5 - 12	0.05 max
Fe	100 max	Si	30 max		
K	15 max	Sn	5 max		

Particle Size / Order No.

Grade	FSSS/µm	Order No.	Grade	FSSS/µm	Order No.
WP 07 ¹	0.61 – 0.7	5302007	WP 45	4.3 – 4.7	5303045
WP 10 ¹	0.91 – 1	5303010	WP 50	4.8 – 5.5	5304050
WP 15	1.46 – 1.55	5303015	WP 60	5.6 – 6.5	5304060
WP 20	2.0 – 2.2	5303020	WP 70	6.6 – 7.5	5304070
WP 25	2.3 – 2.7	5303025	WP 80	7.6 – 8.9	5304080
WP 30	2.8 – 3.2	5303030	WP 100	9.0 – 11.0	5304100
WP 35	3.3 – 3.7	5303035	WP 120	11 – 13	5304120
WP 40	3.8 – 4.2	5303040			

Packing

- 100 kg in 25 l coated steel drums with rubber sealing
- Material in PE- Bag

Maximum Lot Size

- 4.000 kg

Material with FSSS < 3.4 µm is classified as inflammable solid, class 4.1 according UN-No. 3089

Storage, handling and transport are subject to national and international regulations.

Inspection certificate according DIN EN 10204 3.1 8

¹ Because of agglomeration material below 1 µm is lab milled according ASTM B330 prior to FSSS measurement.