

## 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.



### Chemical Characteristics

Elements	ppm	Elements	ppm
Al	10 max	Mg	10 max
Ca	10 max	Mo	70 max
Cr	20 max	Na	15 max
Cu	5 max	Ni	20 max
Fe	100 max	Si	30 max
K	15 max	Sn	5 max

### Oxygen level depending on grain size

FSSS $\mu\text{m}$	O %
< 1.0	0.40 max
1.0 – 2.3	0.20 max
2.3 – 5	0.10 max
5 – 12	0.05 max

### Physical Characteristics

Grade	FSSS $\mu\text{m}$	Grade	FSSS $\mu\text{m}$
WP 07 <sup>1</sup>	0.61 – 0.70	WP 45	4.3 – 4.7
WP 10 <sup>1</sup>	0.91 – 1.00	WP 50	4.8 – 5.2
WP 15	1.46 – 1.55	WP 60	5.7 – 6.3
WP 20	2.0 – 2.2	WP 70	6.7 – 7.3
WP 25	2.3 – 2.7	WP 80	7.7 – 8.3
WP 30	2.8 – 3.2	WP 100	9.5 – 10.5
WP 35	3.3 – 3.7	WP 120	11 – 13
WP 40	3.8 – 4.2		

### Packing

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

### Maximum Lot Size

- 3.000 kg

Material with FSSS < 3.4  $\mu\text{m}$  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

<sup>1</sup> Because of agglomeration material below 1  $\mu\text{m}$  is lab milled according ASTM B330 prior to FSSS measurement.