

Tungsten Carbide Powders

Number PD-1401  
Issue 5 - 26.09.2021



## TUNGSTEN CARBIDE MAS

### Description of Product

Hard metals produced from WC MAS have a very narrow grain size distribution and excellent toughness. Due to high temperature carburization, wear resistance is excellent.

WC MAS grades are recommended for inserts, mining tools, hot working tools and rolls.

### Physical Characteristics

Grades	Fisher number (as supplied)
MAS 500	4.5 - 6.0 µm
MAS 900	8.2 - 9.8 µm
MAS 1200	11.0 - 13.0 µm
MAS 2000	18.0 - 22.0 µm
MAS 3000 - 5000	30.0 - 50.0 µm
MAS 7000	58.0 - 83.0 µm

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#### Chemical Characteristics

(Mass fraction in % [cg/g]; ppm [ $\mu\text{g/g}$ ])

C <sub>total</sub>	6.13 ± 0.05 %
C <sub>free</sub>	max. 0.06 %
O	max. 0.05 %
Al	max. 20 ppm
Ca	max. 25 ppm
Co	max. 100 ppm
Cr	max. 150 ppm
Cu	max. 10 ppm
Fe	max. 250 ppm
Mo	max. 100 ppm
Na	max. 20 ppm
Ni	max. 100 ppm
Si	max. 40 ppm
S	max. 30 ppm

**WC**  
**MAS**  
5 – 70  $\mu\text{m}$

**Packaging** 50 kg in 18 l or 100 kg in 30 l steel drum with liner.