

TUNGSTEN CARBIDE MAS (MINING APPLICATION SPECIAL)

Description of Product Hardmetal produced from WC MAS (5 to 70 μm) has a very narrow grain size distribution in its WC phase and excellent toughness. Due to high temperature carburization, wear resistance is excellent. Because of the combination of these two features, WC MAS is recommended for inserts, mining tools, hot working tools and rolls. Available standard MAS grades are WC MAS 500, 900, 1200, 2000, 3000 – 5000, 7000.

Grades Available **Product Designation**
MAS 500, MAS 900, MAS 1200, MAS 2000, MAS 3000 – 5000, MAS 7000

Chemical Characteristics

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

	Limit	
C _{total}	6.13 \pm	0.05 %
C _{free}	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

Physical Characteristics

Grades	Fisher Number (as supplied)	Tolerances
MAS 500	5.0 μm	4.5 – 6.0 μm
MAS 900	9.0 μm	8.2 – 9.8 μm
MAS 1200	12.0 μm	11.0 – 13.0 μm
MAS 2000	20.0 μm	18.0 – 22.0 μm
MAS 3000- 5000	40.0 μm	30.0 – 50.0 μm
MAS 7000	70.0 μm	58.0 – 83.0 μm

- Packaging**
- 50 kg in 18 l steel drums with PE-bags
Packaging unit = 400 kg in 8 drums on CP1 pallet.
 - 100 kg in 30 l steel drums with PE-bags
Packaging unit = 800 kg in 8 drums on CP1 pallet.
- Other kinds of packaging are available on request.
- Storage and Handling** Storage and handling are subject to the rules and regulations in the country of use.
- Hazards identification in Advertising (Directive 67/548/EEC Article 26, Directive 1999/45/EC Article 13 and REGULATION (EC) No 1272/2008 Article 48)**
none.
- Documentation** An inspection document in accordance with EN 10204 is supplied with every shipment.

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