

MACROLINE TUNGSTEN CARBIDE (MTC)

Chemical Formula WC/W₂C

Chemical Name Cast Tungsten Carbide (Fused Tungsten Carbide)

Description of Product MACROLINE TUNGSTEN CARBIDE combines the advantages of Cast Tungsten Carbide (CTC) with those of mono tungsten carbide (WC). Each of the irregularly shaped MTC particles consists of a high hardness CTC core and a shell of WC, preventing formation of brittle eta phases during welding. Carbon content of MTC is in the range of 4.3 to 5.2 wt.-%. Hardness values are in the same range as CTC.

Blends of MTC with Ni, Fe or Co based alloy powders are used to produce superior wear and shock resistant coatings by PTA welding, lasercladding or other wear protective welding applications. Furthermore, MTC can be used for the production of drill bits by infiltration.

HS Number 28499030

Particle sizes available	Product Designation
	Item 1: 425 / 200 µm
	Item 2: 400 / 200 µm
	Item 3: 355 / 150 µm
	Item 4: 250 / 106 µm
	Item 5: 180 / 53 µm
	Item 6: 150 / 53 µm
	Item 7: 125 / 45 µm
	Item 8: 90 / 45 µm
	Item 9: 45 / 15 µm

Other grain size distributions on request

Chemical Characteristics¹⁾
(Mass fraction in % [cg/g]; ppm [µg/g])

C_{total} 4.3 – 5.2 %

Physical Characteristics

Particle size distribution^{2) 3)}

Oversize max. 2 %
Undersize max. 5 %

1) Information on chemical analytical methods on request, 2) ROTAP Screening per ASTM B 214,
3) MICROTRAC by Laser Light Diffraction per ASTM B 822 (only <45µm).

Number	PD-5221
Issue	7-11.02.2019

Packaging Packaging according to transport regulations.
50 kg in 18 l steel drum with a polyethylene bag.
Other packaging / quantity on request.

Storage and Handling Storage and handling are subject to the rules and regulations in the country of use.

Hazards identification in Advertising (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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