

Tungsten Carbide Powders

Number PD-5165
Issue 1-07.10.2021

**CTC +
Metal**

25 – 3000 μm

CAST TUNGSTEN CARBIDE MATRIX POWDERS

Description of Product

Eutectic mixture of mono tungsten carbide (WC) and di-tungsten carbide (W_2C), with a rough, angular and irregular particle shape. CTC particles have a very fine internal structure ("feather structure"), resulting in very high hardness values. Blends of CTC with alloy powders can be used for the production of matrix drill bits when infiltrated.

Physical Characteristics

Size Fractions

CTC size fractions can be tailored to the needs of the application, with allowances for minor over/under size material.

Typical grain size range for these applications is 25 to 500 μm with custom tailoring available to individual customers needs.

Material can be blended with other materials such as WC, Cu, Ni, Fe to give control on multiple fractions within a master blend. Please contact your sales representative for a dialogue on your application.

Chemical Characteristics (CTC only)

(Mass fraction in %)

C_{total}	3.8 - 4.2
C_{free}	max. 0.05
Fe	max. 0.20
O	max. 0.06

Packaging

50 lbs in 4 l steel pail with liner.

Other kinds of packaging available on request.