

POWDERS

CHILL CAST TUNGSTEN CARBIDE POWDERS

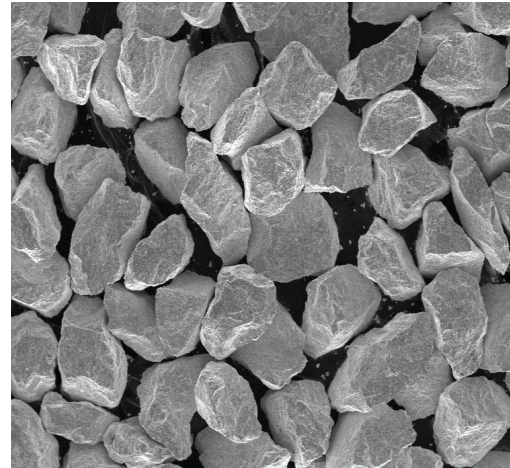
TECHNICAL DATA

PRODUCT DESCRIPTION

Kennametal provides tungsten carbide powders produced by the high-temperature reaction of tungsten and carbon via a casting process. The material features a two-phase eutectic composition containing carbides of both tungsten carbide monocarbide (WC) and ditungsten carbide (W_2C). The result is one of the hardest and most abrasion-resistant materials.

APPLICATIONS

Hardfacing (weld) rods, infiltrated diamond tools, drill and coring bits, and infiltrated hot press powders for bits and tools.



Chill Cast Tungsten Carbide 50x SEM

TYPICAL PHYSICAL PROPERTIES

| Product Name | Product Code (Material Master) | Mesh Size | Total Carbon | Apparent Density g/cm ³ | Scott Density g/in ³ |
|--------------|--------------------------------|-----------|--------------|------------------------------------|---------------------------------|
| DMW2C021 | 1601339 | 40 x 60 | 3.6–4.2% | 7.6–8.2 | 124–134 |
| DMW2C022 | 1584115 | 40 x 80 | | 7.6–8.2 | 124–134 |
| DMW2C023 | 1584116 | 40 x 100 | | 7.6–8.2 | 124–134 |
| DMW2C028 | 1584118 | 60 x 80 | | 7.5–8.1 | 122–133 |
| DMW2C029 | 1584119 | 60 x 100 | | 7.2–7.9 | 118–129 |
| DMW2C033 | 1584121 | 80 x 200 | | 6.9–7.6 | 113–125 |
| DMW2C035 | 1584122 | 100 x 200 | | 6.9–7.6 | 113–125 |
| DMW2C037 | 1584124 | 140 x 200 | | 6.7–7.5 | 110–123 |
| DMW2C038 | 1584125 | 140 x 325 | | 6.6–7.4 | 108–122 |
| DMW2C031 | 1584126 | 200 x 325 | | 6.6–7.4 | 108–122 |
| DMW2C027 | 1584117 | 200 x 400 | | 6.6–7.4 | 108–122 |
| DMW2C042 | 1584128 | -325 | | 6.2–6.8 | 102–112 |

PACKAGING

Product typically ships in 50-lb. (25-kg) metal drums.

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