

Tungsten Carbide Powders

Number PD-1404
Issue 6-27.08.2021



TUNGSTEN CARBIDE HC

Description of Product

Standard WC grades (grain size from 5 – 10 µm) that have been improved over the years. They are known as general purpose grades all over the world.

Physical Characteristics

| Grades | Fisher number (as supplied) |
|---------|--------------------------------|
| HC 300 | 2.7 - 3.3 µm |
| HC 400 | 3.7 - 4.3 µm |
| HC 500 | 4.6 - 5.4 µm |
| HC 600 | 5.5 - 6.5 µm |
| HC 800 | 7.5 - 8.5 µm |
| HC 1000 | 9.5 - 10.5 µm |

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Chemical Characteristics

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

C_{total} 6.13 ± 0.05 %

C_{free} max. 0.06 %

The oxygen content depends on the particle size.

O max. 0.15 %

for WC HC 300 and WC HC 400

O max. 0.07 %

for WC HC 500 up to WC HC 1000

Al max. 20 ppm

Ca max. 25 ppm

Co max. 100 ppm

Cr max. 50 ppm

Cu max. 10 ppm

Fe max. 150 ppm

Mo max. 100 ppm

Na max. 20 ppm

Ni max. 100 ppm

Si max. 40 ppm

WC
HC

5 – 10 µm

Packaging

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