

# Vanadium

## CARBIDE POWDER

Vanadium Carbide Powder a fine gray metallic powder, this refractory ceramic material is notable for being extreme hardness, extreme wear resistance, and low coefficient of friction surface finish, and high corrosion resistance. Vanadium carbide powder maintains a cubic crystal structure, and may be the hardest known metal-carbide with its hardness ranging from 9 to 9.5 Mohs. Given its unique hardness and corrosion-resistance, vanadium carbide powder is frequently used as an additive in alloys. Vanadium carbide powder is frequently used to produce extremely hard coatings for high-stress applications.

### Quick FACTS

- |            |                           |               |           |
|------------|---------------------------|---------------|-----------|
| ✓ Product  | : Vanadium Carbide Powder | ✓ Purity      | : 99%     |
| ✓ Color    | : Vanadium Carbide Powder | ✓ APS         | : 40-50µm |
| ✓ Stock No | : NS6130-05-577           | ✓ Other Metal | : 8500ppm |
| ✓ CAS      | : 12070-10-9              |               |           |



CE ISO 9001:2015  
CERTIFIED COMPANY  
ISO: 13485:2016/20ZICE4588M  
CE: 20ZICE4589C

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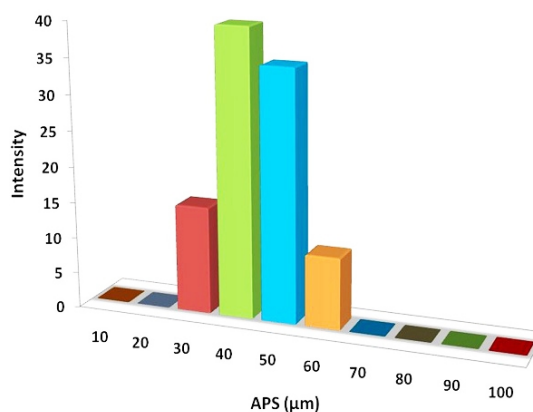
### Applications

- ✓ Hard film, target
- ✓ Welding materials, spraying, cutting tools
- ✓ Steel industry, aerospace
- ✓ Lithium ion batteries, and in supercapacitors, as well as serving as a coating material



### Packing Sizes Available

10ml, 25ml, 50ml, 100ml,  
250ml, 500ml, 1Ltr & Bulk orders



### Technical SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
VC	62.95 g/mol	5.77 g/cm <sup>3</sup>	2810°C	3900 °C

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