

# Zirconium

CARBONATE POWDER

## Quick FACTS

- ✓ Product : Zirconium Carbide Powder
- ✓ Color : Gray Powder
- ✓ Stock No : NS6130-12-000939
- ✓ CAS : 12070-14-3
- ✓ Purity : 99.9%
- ✓ APS : <10µm
- ✓ Other Metal : 850ppm

One of the most important tasks of modern materials science is obtaining materials for usage in extreme conditions – at high temperatures and voltages, under the influence of aggressive media, etc. Zirconium carbide (ZrC) is an extremely hard refractory ceramic material, commercially used in tool bits for cutting tools. zirconium carbide (ZrC) powders providing high hardness, low coefficient of friction surface finish, high thermal shock resistance, high temperature stability, and high wear resistance. Zirconium carbide (ZrC) is one of the most attractive ultrahigh- temperature ceramics due to its excellent properties. Zirconium carbide can be used in new insulation thermostat textiles, nylon, fiber, hard alloy, nano-structured parts and devices: such as metallurgy, chemical industry, machinery, aviation, aerospace and energy industries using high temperature and corrosion resistant.



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

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[www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)

Tel: +91 9779550077, 9779238252

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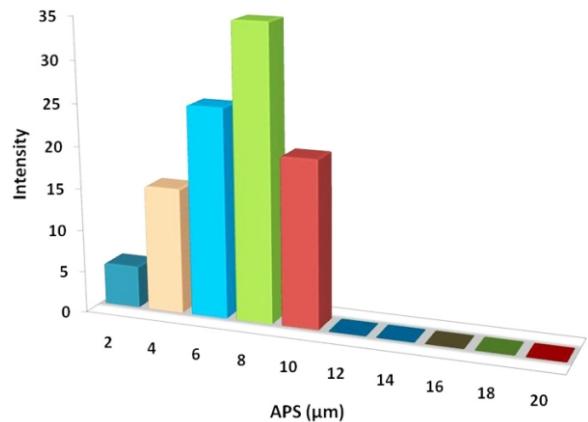
CARBONATE POWDER

## Applications

- ✓ Wear surface (wear resistant) parts and coatings.  
Parts and coatings that undergo fretting, abrasion, cavitation, and particle erosion.
- ✓ High emissivity and high current capacity at elevated temperatures,
- ✓ Making it a promising material for use in thermo-photovoltaic radiators
- ✓ field emitter tips and arrays.

### Packing Sizes Available

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



### Technical SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
ZrC	103.23 g/mol	6.73g/cm3	3540 °C

### INTELLIGENT MATERIALS PVT LTD

Derabassi-140507 Punjab-India  
[www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)  
+91 9779 550077, 9779238252  
Company's GSTIN: 03AACI9814Q1Z6

### NANOSHEL UK LIMITED.

Chapel House  
Chapel St Cheshire  
CW12 4AB United Kingdom  
+44(0)74105488, +442031375187

### NANOSHEL LLC.

3422 old Capitol Suit  
1305 Wilmington DE - 19808  
United States  
+1646 470 4911



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