

ZIRCONIUM CARBIDE Nanopowder

Quick Facts

| | | |
|-----------------|---|------------------------------|
| Product | : | Zirconium Carbide Nanopowder |
| Stock No | : | NS6130-12-000382 |
| CAS | : | 12070-14-3 |
| Form | : | Powder |
| Purity | : | 99.9% |
| APS | : | 80-100nm |

Zirconium carbide (ZrC) is one of the most attractive ultrahigh-temperature ceramics due to its excellent properties. Zirconium carbide (ZrC) is an extremely hard refractory ceramic material, commercially used in tool bits for cutting tools.

- Carbide compounds are characterized by their hardness; hence can be used as drills and other tools that need to be abrasion resistant.
- Nanometer zirconium carbide can be used in nano-structured parts in metallurgical, chemical and aviation industry.
- It finds application in the textile industry in making thermostat textiles in nylon, fiber and hard alloy.
- Composite materials that are used in the ceramic and metal matrix are also made from these nanoparticles.

Technical Specification

| | | |
|--------------------------|---|------------------------|
| Molecular Formula | : | ZrC |
| Molecular Weight | : | 103.235 g/mol |
| Density | : | 6.56 g/cm ³ |
| Melting Point | : | 3400°C |



APS
80-100nm

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NS6130-12-000382

ISO 9001:2015
CERTIFIED COMPANY



20ZICE4589C



19ZAZGO1274G



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