

# GADOLINIUM ZIRCONATE POWDER

Stock No: NS6130-12-000798



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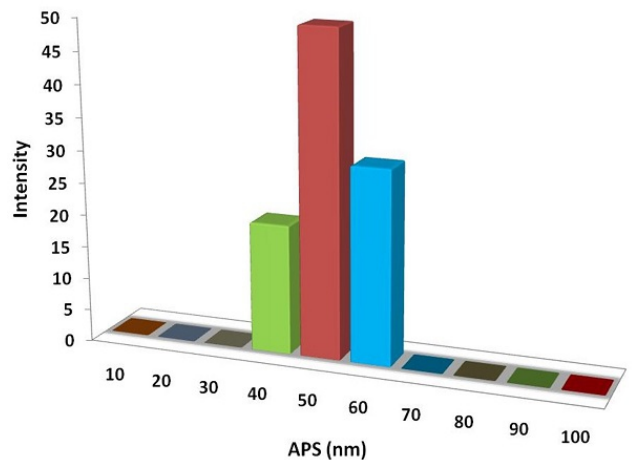
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## Gadolinium Zirconate Powder

Gadolinium zirconate (GZ) is a promising alternative material with its lower thermal conductivity, better sintering ability, and higher melting point and phase stability. Gadolinium zirconate is a very radiation-resistant material that shows promise for use as a durable storage material for immobilizing plutonium and other actinides. It shows promise to protect aircraft engines as a ceramic coating from volcano ash. Low thermal conductivity oxide used as a thermal barrier coating and for corrosion resistance. Gadolinium zirconate is a very radiation-resistant material.

### Quick Facts

Product	:	Gadolinium Zirconate Powder
Color	:	White Powder
Stock No	:	NS6130-12-000798
CAS	:	11073-79-3
Purity	:	99%
APS	:	40-60µm
Other Metal	:	8500ppm



## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
$Gd_2O_7Zr_2$	607.94g/mol	6.3 g/cm <sub>3</sub>	2570 °C

## Applications

- Various types of buckets and vanes
- Combustion liners
- Transition ducts

ISO 9001:2015  
CERTIFIED COMPANY

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