

**Purity** 

99.9%

CAS No.





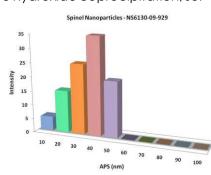


## **Spine**l Nanoparticles

Spinel-type magnesium aluminate is an efficacious refractory ceramic. This material has mechanical, chemical, and thermal properties. The main conventional method to synthesize MgAl2O4 spinel powders is a solid state reaction between high-purity Al2O3 and MgO at temperature over 1,600oC. Currently, a variety of non-conventional techniques have been employed to manufacture MqAl2O4 spinel powders.

The main pros of these techniques are high purity and sinter-activity of produced powders. These methods involve hydroxide coprecipitation, sol-

gel, flame spray pyrolysis, freeze-drying, spray-drying, and mechanical activation. Magnesium aluminate (MgAl2O4) spinel is commonly employed in the metallurgical, radio technical, and chemical industries because of its desirable mechanical, chemical, and thermal properties.



## **Technical Specification:**

Molecular Formula	Specific Heat	Density	Melting Point	Young's Modulus
MgAl2O4	0.29	3.578 g/cc	2135 °C	34.5 ×106 psi

Product	Weight Percent (nominal)	
		Other Metal
Spinel Nanoparticles	99.9%	8000 ppm

## **Chemical Composition**

Product	Weight Percent (nominal)	
		Other Metal
Spinel Nanoparticles	99.9%	8000 ppm

## **Applications:**

- √ Metallurgical Applications
- √ Cement
- Electrochemical
- Radio technical industries
- Chemical industries











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