

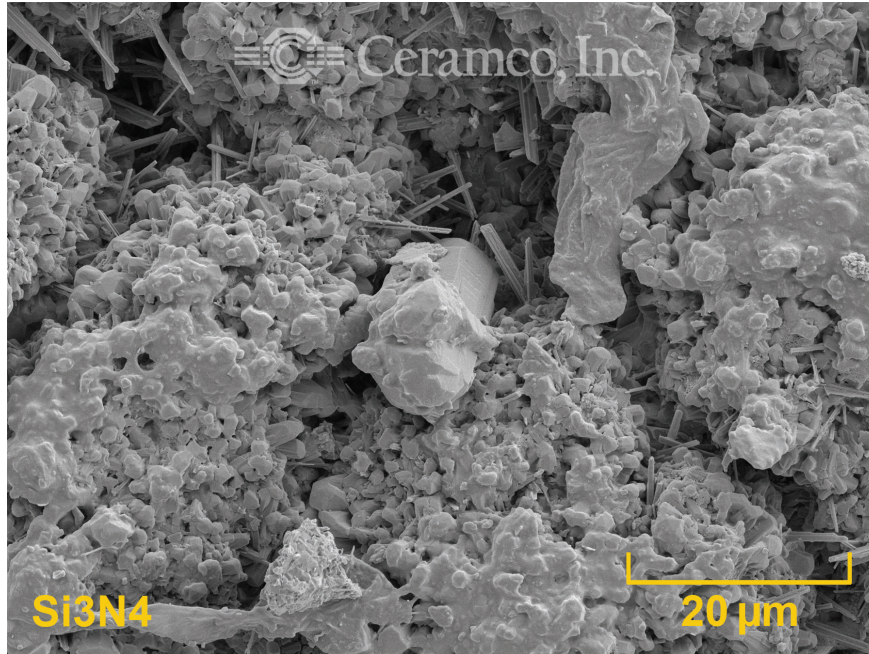


# Ceramco, Inc.

Manufacturing OEM Ceramic Parts of Complex Geometries

## Material Certification Reference

**Date:** January 9, 2019  
**Material:** Si3N4 (Silicon Nitride formulation)  
**Process:** LPIM - Low Pressure Injection Molding  
**Microstructure:**



Electron Microscope, Scanning- Tescan Lyra3 GMU FIB SEM, University of New Hampshire

<b>Composition:</b>	<b>Oxide</b> .....	<b>wt %</b>
	Y <sub>2</sub> O <sub>3</sub> .....	6.0000
	Al <sub>2</sub> O <sub>3</sub> .....	5.0000
	C .....	0.2000
	Fe Al Ca .....	0.2000
	SiO <sub>2</sub> .....	1.6000
	α-Si <sub>3</sub> N <sub>4</sub> .....	87.0000
	<b>Total</b> - .....	<b>100.00</b>

The number of digits after the decimal point do not indicate the degree of accuracy.

The accuracy of these data are +/-0.05 %

Chemical composition data are from actual lot(s) of raw material as received from their source(s). Lots presently in production last updated as of the date above. Information on all lots are retained for traceability. You must request a Material Certification at the time of order to accompany shipment(s).

For more information about this material, or any other material, its certification, or process, please contact us.

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