

# Polycrystalline Silicon Carbide Slurries

*High performance slurries for scalable manufacturing of low roughness and defect-free polycrystalline silicon carbide (Poly SiC) wafers*

Entegris is a market leader in polishing slurries that can achieve low surface roughness ( $R_a < 0.5 \text{ nm}$ ) on polycrystalline silicon carbide (poly-SiC) wafers. Our optimized slurries work on poly-SiC material with different grain sizes and orientation. The advanced formulations provide a low cost of ownership for polishing poly-SiC materials in a wide range of applications from semiconductor to industrial. Our slurries are high-volume manufacturing (HVM) ready and compatible with bulk delivery systems. Custom solutions are available upon request.

## APPLICATIONS

- CMP/lapping of polycrystalline silicon carbide
- Polish all surface types (lapped or ground)

## FEATURES & BENEFITS

<b>High performance slurries</b>	Achieve high removal rates with no sub-surface damage and excellent stability and recycling capability
<b>Slurry stability, clean efficiency, and film properties</b>	Enable high-volume manufacturing scale-up and ready to be used in bulk distribution systems
	Low cost of ownership
<b>Global manufacturing capabilities</b>	Provide localized quick-turn and customized solutions
<b>Customer collaboration</b>	Slurry development begins with the customer's application requirements at the forefront
	Our applications engineers work with customers to ensure that chemistries are optimized for target parameters and process conditions



*Lowest surface roughness on poly-SiC wafers.*

## SPECIFICATIONS

Slurry	Process step	Polishing face best optimized for	Key features	Material removal rate (MRR)
SC 3000 series	CMP/polish	poly-SiC	Lowest surface roughness Ra <0.5 nm	2 - 5 $\mu\text{m/hr}$

### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](http://entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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Corporate Headquarters  
129 Concord  
Billerica, MA 01821  
USA

Customer Service  
Tel +1 952 556 4181  
Fax +1 952 556 8022  
Toll Free 800 394 4083

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