

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

High performance slurries	Achieve high removal rates with no sub-surface damage and excellent stability and recycling capability
Slurry stability, clean efficiency, and film properties	Enable high-volume manufacturing scale-up and ready to be used in bulk distribution systems Low cost of ownership
Global manufacturing capabilities	Provide localized quick-turn and customized solutions
Customer collaboration	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](https://www.entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

TERMS AND CONDITIONS OF SALE

All purchases are subject to Entegris' Terms and Conditions of Sale. To view and print this information, visit [entegris.com](https://www.entegris.com) and select the [Terms & Conditions](#) link in the footer.



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

Entegris®, the Entegris Rings Design®, and other product names are trademarks of Entegris, Inc. as listed on [entegris.com/trademarks](https://www.entegris.com/trademarks). All third-party product names, logos, and company names are trademarks or registered trademarks of their respective owners. Use of them does not imply any affiliation, sponsorship, or endorsement by the trademark owner.

©2022 Entegris, Inc. | All rights reserved. | Printed in the USA | 9000-12208ENT-0622