

# Nitride Slurries

*High performance slurries for scalable manufacturing of atomically smooth and defect-free nitride surfaces*

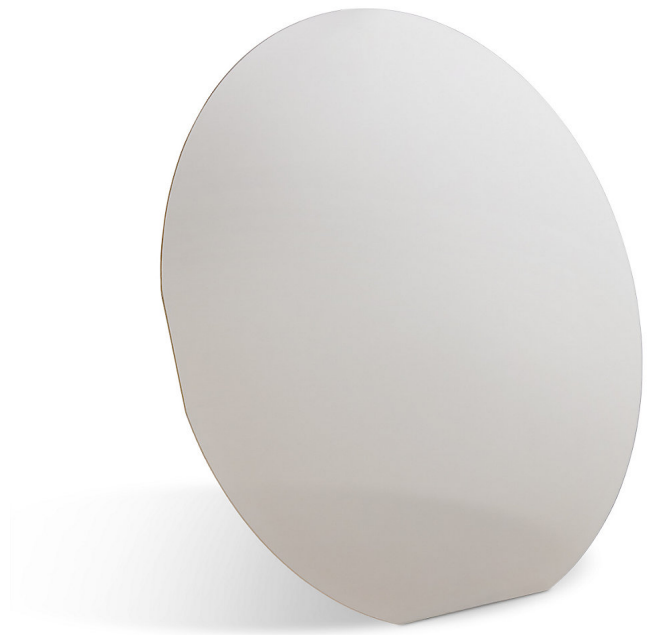
Entegris is the market leader for bulk polishing, lapping, and CMP for multiple nitride surfaces (GaN, AlGaN, AlN, Ga- or N-face, 'c' or 'm' planes). Our CMP slurries are optimized to achieve low surface roughness (<2 angstrom) and low defectivity. Our advanced formulations provide ultra-high polishing rates up to 10 times higher than existing bulk removal processes, while maintaining uniformity, zero sub-surface damage, and low defectivity/scratches.

## APPLICATIONS

- CMP/lapping of nitride substrates and epi layers
- Polish all surface types (lapped or mechanically polished)

## FEATURES & BENEFITS

<b>High performance slurries</b>	Achieve high removal rates with no sub-surface damage and excellent stability
<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



*Specifically designed for multiple nitride surfaces.*

## SPECIFICATIONS

Slurry	Process step	Polishing face best optimized for	Key features	Material removal rate
GN 1000 series	CMP	Gallium face and nitrogen face	Low surface roughness and defectivity for final finishing, Ra <0.2 nm	0.5 - 1.0 $\mu\text{m/hr}$ (Ga face) 2.0 - 2.5 $\mu\text{m/hr}$ (N face)
GN 2000 series	CMP	Gallium face	Optimized surface roughness for Ga face	0.7 - 1.3 $\mu\text{m/hr}$
GN 3000 series	Lapping	Gallium face and nitrogen face	High removal slurries for bulk polishing and lapping	20 - 25 $\mu\text{m/hr}$

### 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.

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