

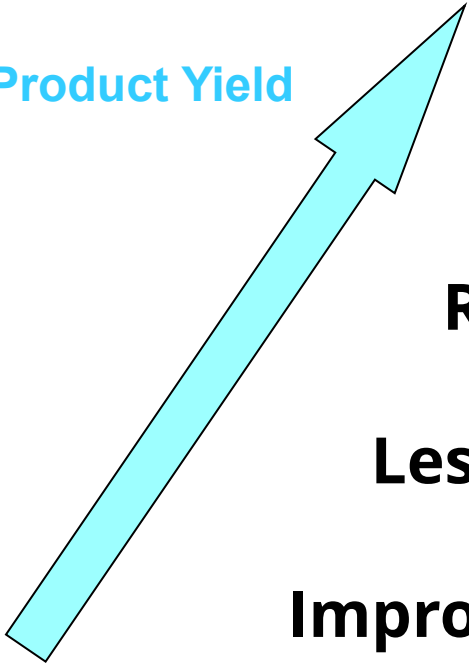


Diamond Scrub Pads



A Robust solution for process-chamber cleaning

Product Yield



DSP Diamond Scrub Pad

Reduces particles & ionic contamination

Less Downtime

Improves Fab Yield & Productivity





Diamond Scrub Pad Advantages

- Scrub cleaning fields
 - Processes via vacuum chambers :
 - Ion Implantation
 - Dry Etch
 - CVD PVD
 - ALD
 - CMP
- Fast cleaning on tools & parts such as
 - Aluminum / Anodized Aluminum
 - Stainless Steel
 - Ceramics
 - Glass, Quartz etc...
- Fiber free process : Clean Process
 - Global particle level reduction
 - Reduction of ionic residue
- DIW cleaning
 - Elimination of H_2O_2 reduces recovery times
 - Eliminate safety hazards using H_2O_2



Diamond Pad New Generation

- Variety of Grit size to suit scrub cleaning process
 - Selection of the grit to the part to be cleaned depending on application
 - From Fine to Coarse scrub

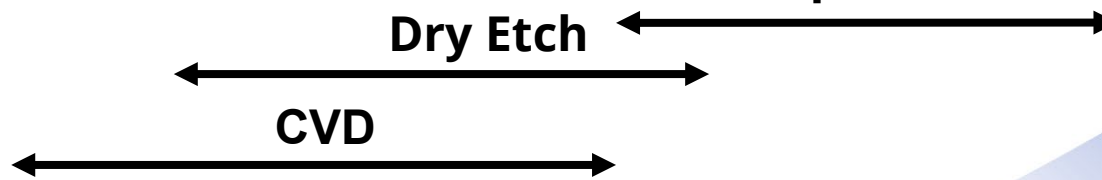
	DSP	DSP	DSP	DSP	DSP	DSP	DSP
Mesh	3000	1600	600	250	250D	220	170
Range Grid	2000 - 1350	1350 - 800	450 - 400	360 - 320	320 - 280	280 - 220	180 - 220
µm equiv.	6	12	35	80	80	95	120

Gasket
Polish

Implantation

Dry Etch

CVD

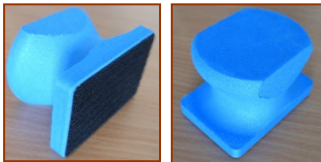




Diamond Pad New Generation

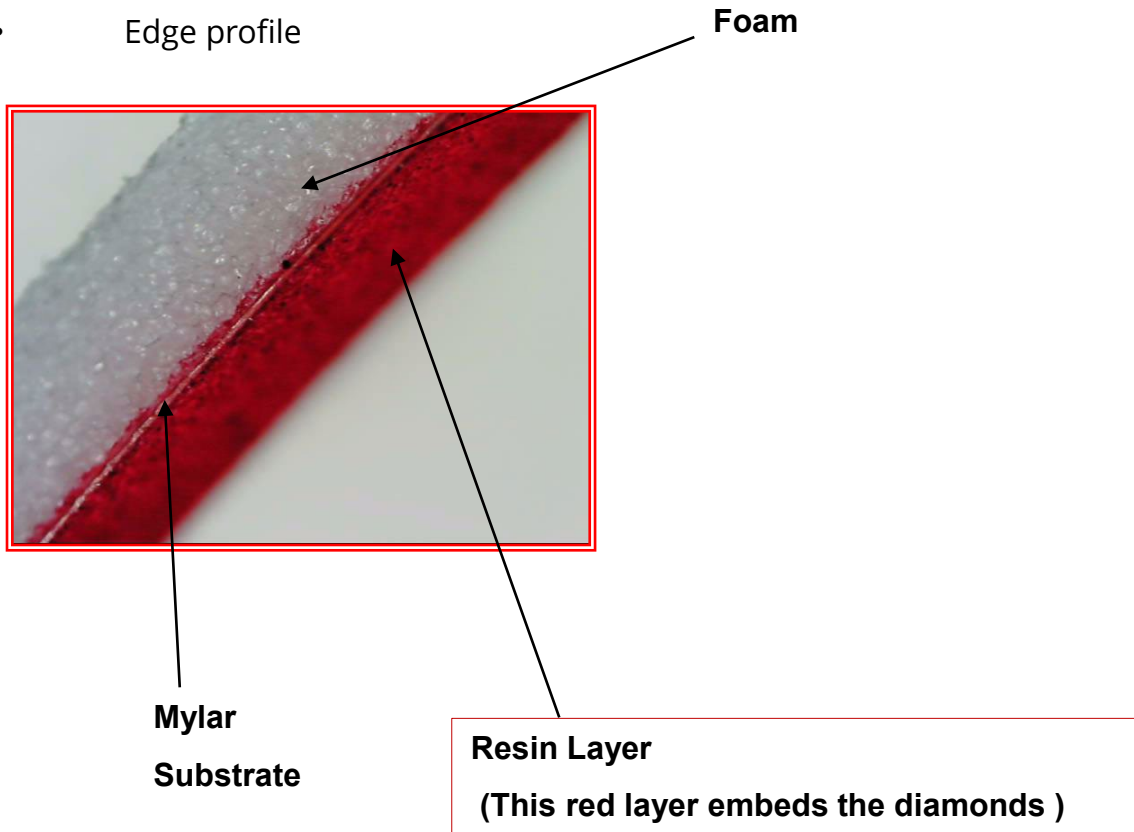
- EURIS has engineered a variety of Next Generation Diamond Scrub Pads to improve chamber cleanliness

- Clean design; no fiber compared to conventional method Scotch-Brite® etc...
- Uniform efficiency : No break-in / burn-in required (Break In =Exple. CMP PAD exchange process step)
 - Less scratches
 - Smoother surface
 - Real minimization of tool wear
- Design creates surface polish effect & reduces scratches
 - Applications on parts in contact up to laser reflection finishing.
 - Do not damage chamber wall
- Ease of use with ergonomic handle
 - Fit technician hand
 - Prevent technician hand pain during cleaning
 - Durable and re-usable design environment friendly



- Example

- Edge profile

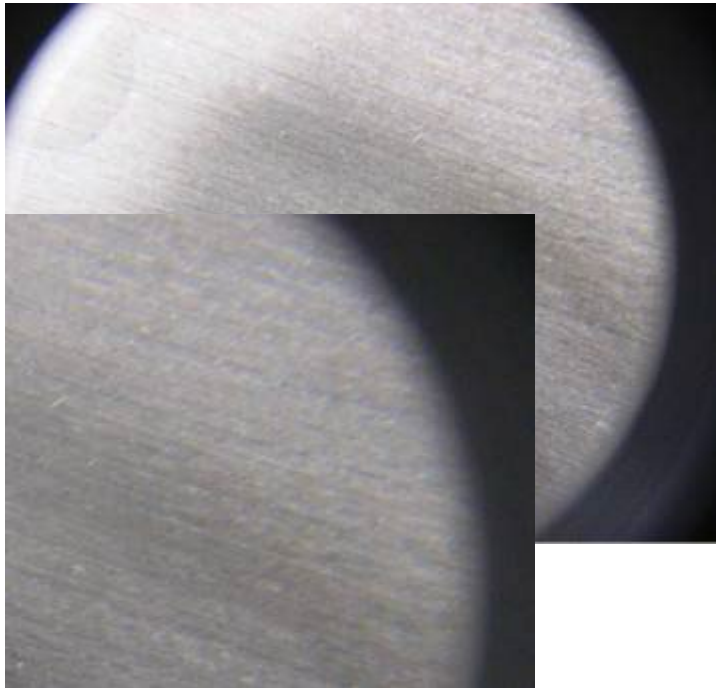


Technical Aspects

Results on anodized aluminum

- DSP-250

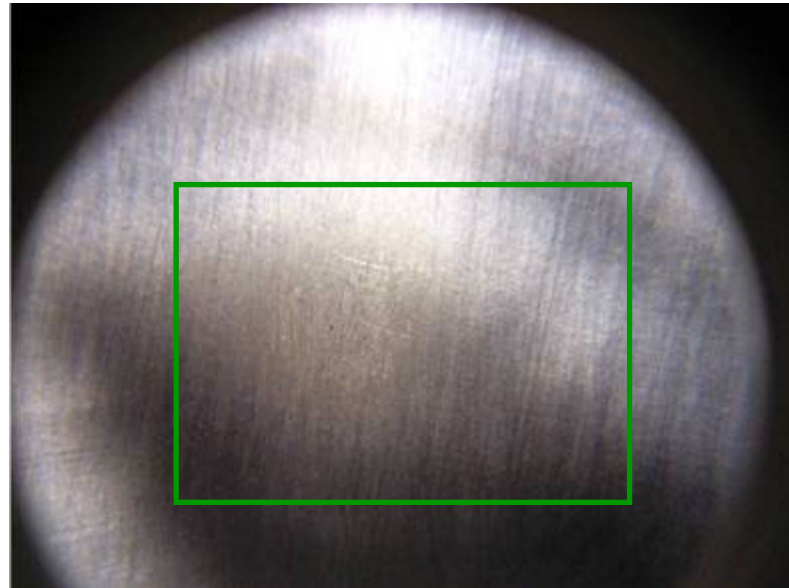
- Example of a 230mm Anodized Aluminum disc scrubbed until the anodized layer is removed



**Lines are induced by
Machine-shop cutting tool.**

No scrub scratch

- Scratch done intentionally –
Break through an anodized aluminum layer



**Scratch is difficult to generate due to global
area scrubbing
No indentation of aluminum**



Technical Aspects

Results on Ceramics

- Scratch reduction makes Euris DSP the best candidate for Ceramic parts scrubbing
 - Electrostatic Chucks
 - HDP Domes
 - End effectors etc...



Wide product range

• Clean Room Use products

- Foam backing for hand process
- Loop backing for ergonomic hand tool process
- Custom specific Design possible
- Double bag packing







• Colored by Grit Clean Room Use products



- Foam backing for hand process
- Loop backing for ergonomic hand tool process
- Pack of 10 packing

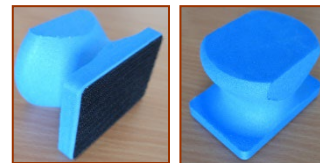




Product Applications





DSP part #	Applications
235-L-1 235-F-1 	Heavy + duty for hard process residue Thick process residues Hard process residues
250D-L-1 250D-F-1 	Heavy duty for hard process residue Hard process residues
250-L-1 250-F-1 	High for hard process residue
600-L-1 600-F-1 	Medium duty for medium process residue


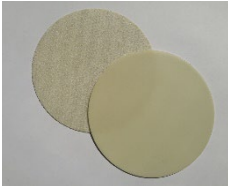
DSP part #	Applications
1600-L-1 1600-F-1 	Medium low duty for low process residue
3000-L-1 3000-F-1 	Low duty for light process residue





Product Applications

DSP part #	Applications
R235-L-1 	Heavy + duty for hard process residue Thick process residues Hard process residues
R250D-L-1 	Heavy duty for hard process residue Hard process residues
R250-L-1 	High for hard process residue
R600-L-1 	Medium duty for medium process residue

DSP part #	Applications
R1600-L-1 	Medium low duty for low process residue
R3000-L-1 	Low duty for light process residue





More information & contact

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