



Diamond Scrub Pad - New Generation

DESCRIPTION

DSP pads are a new scrubbing-tool generation, developed for Preventive Maintenance Cleanings of Semiconductor equipment.

Pure diamonds are equally distributed on a polyamide film (Mylar).

Available in different diamond sizes and pad shapes.



Designed for higher productivity:

faster	cleaning,
less	generation of particles and contaminations
shorter	tool requalification time
shorter	total Preventive Maintenance time
longer	Maintenance interval
longer	tool Production availability

Suitable to prevent damages on critical surfaces like anodized Aluminum, ceramics etc. ...

APPLICATION CHART

DSP Part#	ALD CVD ETCH	Implant	CMP
DSP-250-F-1 DSP -250-L-1 DSP-R250-L-1 	Heavy duty for hard process residue Alcatel AMAT GENIUS ALD Novellus Oxford Picosun Plasma Therm Roth & Rau	Source chamber residue AMAT EATON Axcellis Varian	
DSP-600-F-1 DSP -600-L-1 DSP-R600-L-1 	Medium duty for medium process residue Alcatel AMAT Axcellis GENIUS ALD Hitachi LAM Novellus Oxford Picosun Plasma Therm Roth & Rau TEL		
DSP-1600-F-1 DSP -1600-L-1 DSP-R1600-L-1 	Medium Low duty medium Low process residues. Alcatel AMAT Axcellis GENIUS ALD Hitachi LAM Novellus Oxford Picosun Plasma Therm Roth & Rau TEL		Dried Slurry AMAT Ebara G&P IPEC Strasbaugh Westec Wolters
DSP-3000-F-1 DSP -3000-L-1 DSP-R3000-L-1 	Low duty Low process residues. Alcatel AMAT Axcellis GENIUS ALD Hitachi LAM Novellus Oxford Picosun Plasma Therm Roth & Rau TEL	Polish Source Chameber, Liner and Source Bushing AMAT EATON Axcellis Varian	Dried Slurry Residue AMAT Ebara G&P IPEC Strasbaugh Westec Wolters

GENERAL SPECIFICATION

Composition: Diamond abrasive aggregate free	Diamond Sizes: 6µm, 12µm, 35µm, 80µm
Substrate: Low particle emission PET film - Mylar	Bonding: Acrylate type structured by PET

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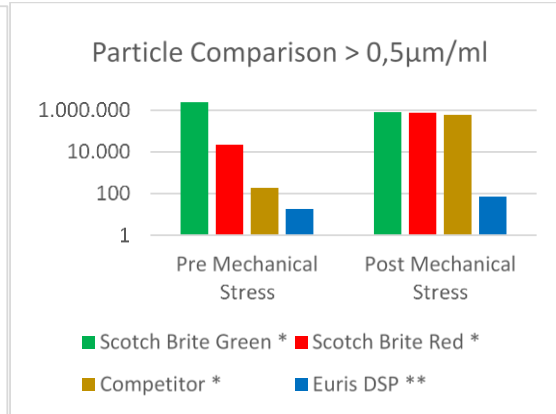
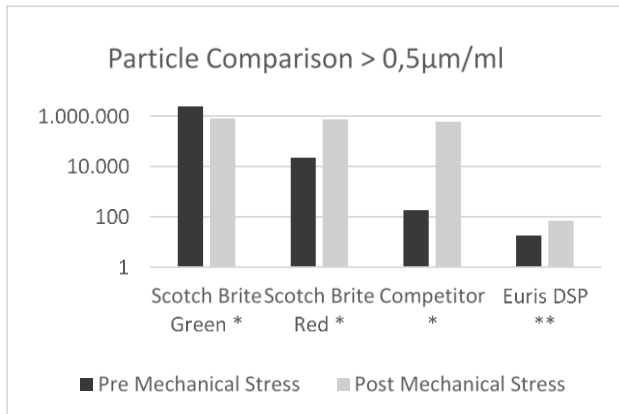
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Pad Shape: 60x90mm or \varnothing 90mm

Back side: Loop or PE hydrophobic foam

ANALYTICAL ANALYSIS

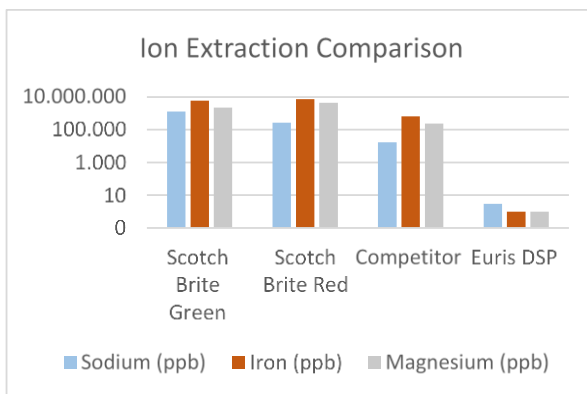
PARTICLES – LPC (Liquide Particle Count) >0,5 μ m/ml



Particles > 0,5 μ m / ml	Scotch Brite Green *	Scotch Brite Red *	Competitor *	Euris DSP **
Pre Mechanical Stress	2.430.000	22.356	186	19
Post Mechanical Stress	810.000	756.000	594.000	71

EURIS DSP **	EURIS DSP **	EURIS DSP **
> 0,4 μ m / ml	> 0,3 μ m / ml	> 0,2 μ m / ml
\leq 54	\leq 63	\leq 450
\leq 281	\leq 348	\leq 970

IONS – ICP-MS (Inductively Coupled Plasma Mass Spectrometry)



Extracted Ions	Scotch Brite Green ***	Scotch Brite Red ***	Competitor ***	Euris DSP ****
Sodium (ppb)	1.300.000	270.000	17.000	\leq 3
Iron (ppb)	5.950.000	7.400.000	641.000	\leq 1
Magnesium (ppb)	2.200.000	4.400.000	233.000	\leq 1

* based on Competitor Website Data
** based on Terra Enviroments Analysis 10E1813 Data
*** Data from Competitor Website
**** Terra Enviroment Analysis 10E1813 Data