



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 coated 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
250-F-1 	250-L-1 	Heavy duty for hard process residue Alcatel AMAT Genus ALD Novellus Oxford Picosun Plasmatherm Roth & Rau	Source, Chamber, residue AMAT Axcelis Eaton Varian	
600-F-1 	600-L-1 	Medium duty for medium process residue Alcatel AMAT Axcelis Genus ALD Hitachi LAM Novellus Oxford Picosun Plasmatherm Roth & Rau TEL		
1600-F-1 	1600-L-1 	Medium low duty for low process residue Alcatel AMAT Axcelis Genus ALD Hitachi LAM Novellus Oxford Picosun Plasmatherm Roth & Rau TEL		Dried slurry AMAT Ebara G&P IPEC Strasbaugh Westec Wolters
3000-F-1 	3000-L-1 	Low duty for light process residue Alcatel AMAT Axcelis Genus ALD Hitachi LAM Novellus Oxford Picosun Plasmatherm Roth & Rau TEL	Polish source chamber, liner and source bushing AMAT Axcelis Eaton 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
Pad Shape: 60x90mm or ø 90mm	Back side: Loop or PE hydrophobic foam



Euris Germany (Headquarter)
Euris GmbH
Waldmeisterstraße 72
D-80935 München
Germany
Tel: +49 89 35 09 578 -0

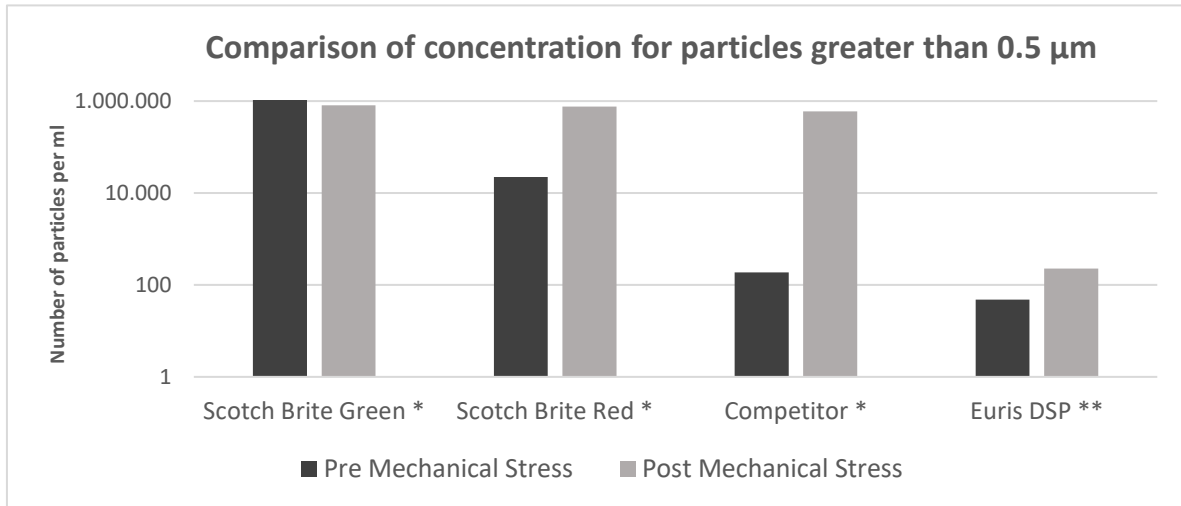
Euris France
Euris Sarl
1219 rue Alphonse Gourju
38140 APPRIEU
France
Tel: +33 476 35 07 07

Euris United Kingdom
Sollus Centre
231 Victoria Road
Bready Co. Tyrone BT820EB
United Kingdom
Tel: +44 287 184 1704



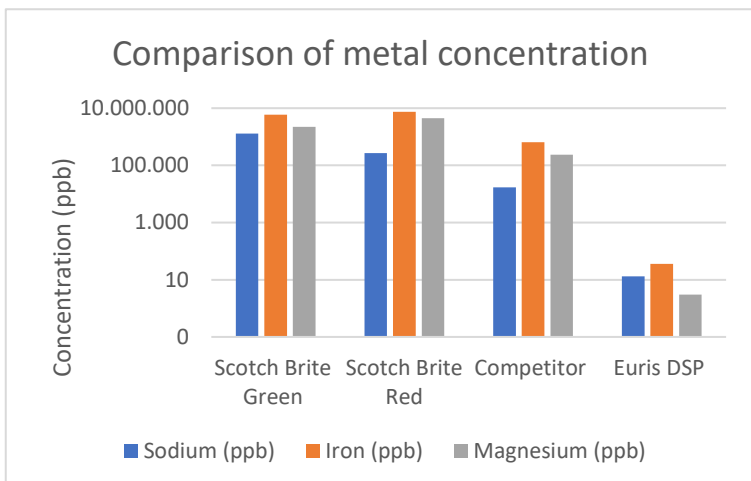
ANALYTICAL ANALYSIS

PARTICLES – LPC (Liquide Particle Count)



Particles size > 0.5 µm	Number of particles per millilitre			
	Scotch Brite Green *	Scotch Brite Red *	Competitor *	Euris DSP **
Pre Mechanical Stress	2.430.000	22.356	186	48
Post Mechanical Stress	810.000	756.000	594.000	226

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	13
Iron (ppb)	5.950.000	7.400.000	641.000	36
Magnesium (ppb)	2.200.000	4.400.000	233.000	3

*	Based on Competitor Website Data
**	Based on ECP Analysis CERT 210632 Data
***	Data from Competitor Website
****	ECP Analysis CERT 210656 Data



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Euris United Kingdom