



UltraSOLV® ScrubPAD, ErgoSCRUB® and ScrubDISK®



Description - ScrubPAD

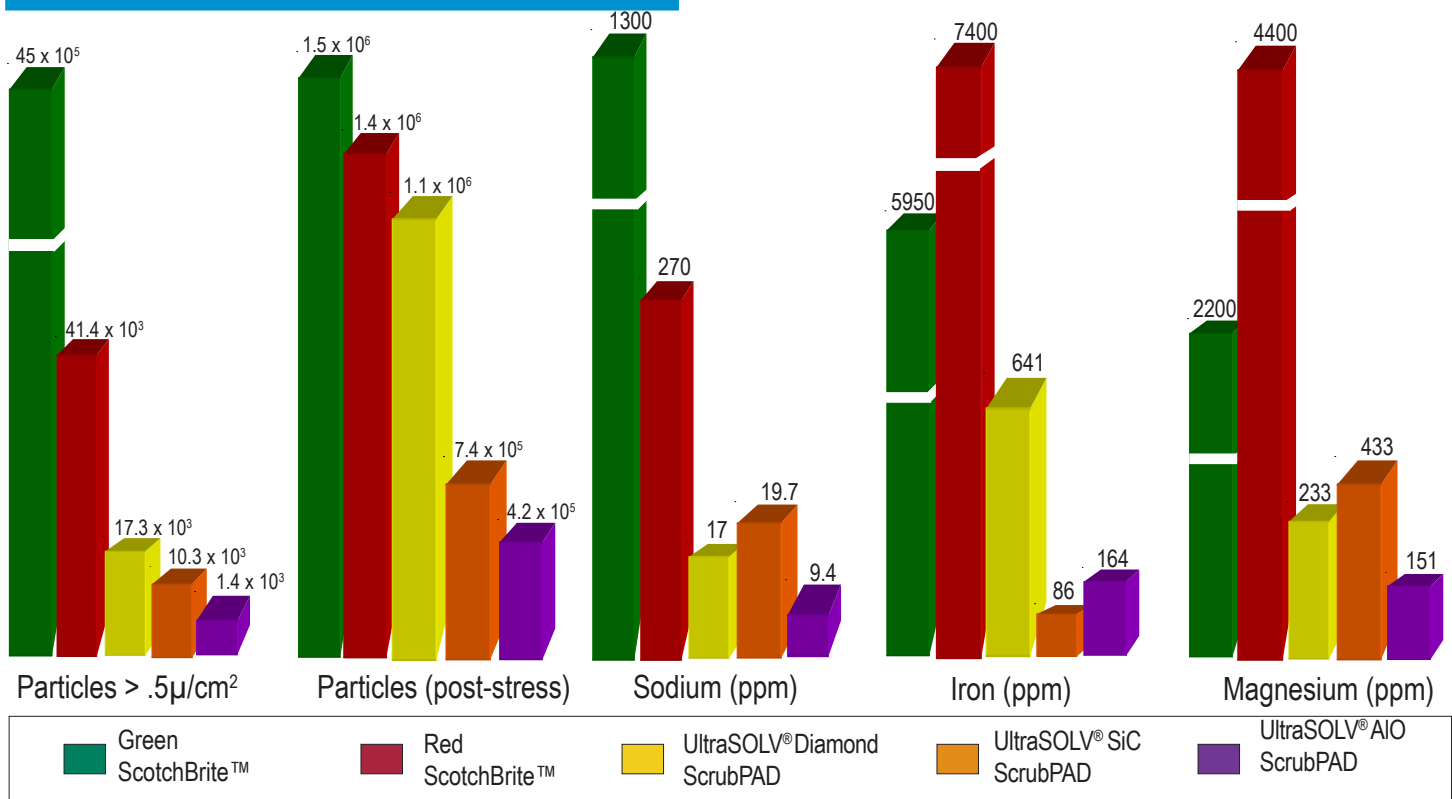
cleaning critical surfaces

UltraSOLV® ScrubPADs are patented scrubbing tools for use in PM procedures on process equipment in semiconductor, flat panel display, optical component and hard disk drive industries. The availability of various sized diamond, silicon carbide and aluminum oxide abrasives allow for safe and efficient scrubbing of the most difficult to clean process chambers. UltraSOLV® ScrubPADs, used in conjunction with UltraSOLV® Sponges, Wipers, and Swabs, reduce cleaning times, pump down times and contamination levels for critical process tools.

Advantages

- Wide grit selection allows for quick removal of process-induced residue from aluminum, stainless steel, ceramic, glass, quartz and anodized surfaces while minimizing tool wear.
- Ultra low levels of iron for remediation of pitted 304/316 stainless steel
- The fiber-free construction of ScrubPADs greatly reduces particle levels in cleaned tools.
- Extremely low levels of cations and anions to maintain process integrity.
- By using washed abrasives, harmful ionic residues are minimized.
- Unique bonding technology minimizes the release of abrasive particles leading to cleaner PM procedures.
- Enables the elimination of H_2O_2 from PMs, which greatly reduces recovery times.

ScrubPAD Cleanliness



ScrubPAD Application Chart

Tool Category	Tool Type	ScrubPAD Part No.		Comments
CVD TiN	AMAT TxZ	HT4580D-10	To replace H ₂ O ₂ with DI H ₂ O	Can replace HT4536D-10 for tools that have lighter build-up
		HT4536D-10		For view port, pump port, and slit valve cleaning.
		HT4560S-10		For Chamber wall, lid and sealing surfaces cleaning.
		HT4513PDS-10		
		HT4512PS-10		To remove stains from ceramic components.
CVD Metals	AMAT WxZ & DxZ	HT4528D-10	To replace H ₂ O ₂ with DI H ₂ O	For cleaning of chamber surfaces.
		HT4560S-10		For cleaning lid and sealing surfaces and to polish chamber wall.
	Novellus, Prism & Altus	HT4513PDS-10		To remove process stains from chamber wall and metal surfaces.
		HT4536D-10 or HT4540S-10		
CVD Dielectric	AMAT HDP, IMD, STI, and Producer	HT4528D-10		To remove stains from ceramics
		HT4536D-10		Finishing pad for chamber surface and gas ring
		HT4522DC3-1 or HT4528DC3-1		To remove hardened residue from ceramic domes in less than 2 hours
	Novellus SPEED, SEQUEL & HDP	HT4528D-10 or HT4536D-10		To remove stains from ceramics
	Novellus Concept 1 + 2 & PECVD & SPEED	HT4518-11 or HT4522-11		Allows 2 hour cleaning time for heater block
		HT4528D-10 or HT4532D-10 or HT4522DC3-1* or HT4528DC3-1*		Enables cleaning of ceramic parts & 1 hr. clean of heater block
	Novellus Concept 1 + 2 & PECVD & SPEED	HT4514DC3-1*		Enables 30 min. cleaning of heater block dry and 45 min. cleaning wet
STI Etch	AMAT DPS Metal	HT4540S-10 or HT4536D-10		Allows for 1 hour removal of Nitride-based residue
		HT4532D-10		Allows for quick removal of process residue from hard anodized upper chamber surfaces either dry or
		HT4528D-10		To remove process stains on ceramic dome
	Lam 4500 and AMAT P5000	HT4560AS-10		To scrub SA Coat on upper chamber
		HT4540-10 or HT4540A-10		To dry scrub chalk-like process residue.
Metal Etch	AMAT DPS	HT4536D-10		To dry scrub chalk-like residue in < 1½ hours.
		HT4540S-10 or HT4560S-10		To remove process residue from hard anodized upper chamber
		HT4540AS-10		To remove process residue from soft anodized (SA Coat) on upper chamber
		HT4528D-10		To remove process stains on ceramic dome
Poly Etch	TEL Unity 2 DRM	HT4512P-10 or HT4513PDS-10		Dry scrub to remove deposition from O-ring grooves and sealing surface upper chamber lid as well as to smooth out any scratches.
		HT4580D-10		To remove process build-up with light scrubbing action.
	AMAT DPS Poly / Lam 9400	HT4560S-10, HT4540S-10 or HT4513PDS-10		To remove brownish or rainbow-like stain from upper, lower, pedestal and view port sections of the chamber.
		HT4580D-10		To remove process build-up with light scrubbing action.
	Lam 9400	HT4580D-10		To remove blue rainbow and brown residue build-up with light scrubbing action
Dielectric Etch	LAM Exelan, 2300 Exelon™, & 2300 Versys™	HT4580D-10		To remove process build-up with light scrubbing action.
	LAM 4520XLE	HT4580D-10		To remove process build-up with light scrubbing action.
GaAs Etch	Unaxis / Plasmatherm Versalock 700	HT4518S-10		To remove residue from ceramic and aluminum components with DI H ₂ O in ½ hour.
		HT4536D-10		To remove residue and smooth out rough finish of the ceramic ring with DI H ₂ O in 15 min.
Implant - Medium Current / SDS	AMAT, Varian, Axcelis	HT4528S-10 or HT4540S-10		To remove residue from source chamber, liners, and components with DI H ₂ O.
		HT4514DC3-1* or HT4518DC3-1*		Enable quick removal of hardened residue from sources, source chambers lines and beam lines.
		HT4513PDS or HT4512PS-10		To polish source chamber, liners, and component. Also to clean source bushing.
Implant - High Current / SDS	AMAT, Varian, Axcelis	HT4518S-10 or HT4522S-10 or HT4514DC3-1* or HT4518DC3-1*		To remove residue from source chamber, liners and components
		HT4513PDS or HT4512PS-10		To polish source chamber, liners, and components. Also to clean source bushing

ScrubPAD Application Chart

Continued

Tool Category	Tool Type	ScrubPAD Part No.	Comments
Implant - High Current / SDS continued	AMAT*, Varian, Axcelis	HT4532D-10 or HT4514DC3-1* or HT4518DC3-1*	To remove residue from source chamber, liners and components
		HT4510S-10 or HT4528D-10 or HT4514DC3-1* or HT4518DC3-1*	To remove extremely hard residue from beam line and MRS components
Implant - High Current / Solid Source, Indium and Germanium	AMAT*, Varian, Axcelis	HT4510S-10, HT4518S-10, HT4528D-10, HT4514DC3-1* or HT4518DC3-1*	To remove residue from source chamber, liners and components
		HT4513PDS or HT4512PS-10	To polish source chamber, liners, and components. Also to clean source bushing
		HT4510S-10 or HT4528D-10	To remove extremely hard residue from beam line and MRS components

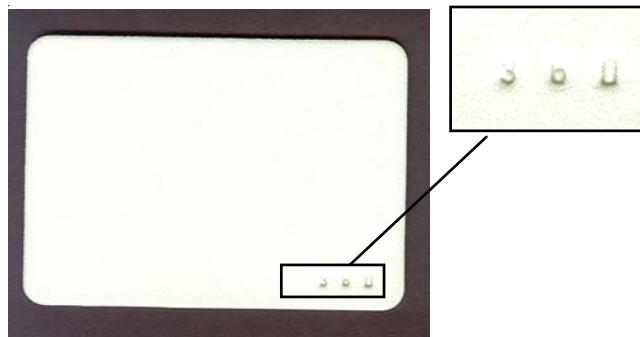
*For use in conjunction with ErgoSCRUB® Hand Tool

Diamond ScrubPAD Family



For ordering information, please check out the Products Page of our website: www.foamtecintlwcc.com.

ErgoSCRUB® is available with Pressure Sensitive Adhesive for the disposable handle and with Hook and Loop for easy replacement of the ScrubDISKS®, as pictured here.



Grit heat stamped on back for easy identification

ErgoSCRUB® and ScrubDISK®



If the Tool Category or Type you are looking for is not listed, please visit the Products page at www.foamtecintlwcc.com for more information or call +1.866.922.7160 ext. 6341 to have a sales engineer get in contact with you..

Description - ErgoSCRUB®

ErgoSCRUB® was designed to provide technician with a soft ergonomically correct scrubbing tool for Implant tools, ceramic domes, Novellus heater blocks, and large vacuum chambers. ErgoSCRUB® is also available in firm models to allow for quick and easy scrubbing on flat surfaces.

Advantages

- Easy to Grip.
- Flexible enough to clean spherical surfaces, such as domes. (FT900/FT901)
- Allows for uniform scrubbing action in order to minimize tool wear, such as dishing to heater blocks. (FT950/FT951)
- Enables faster cleaning of large tool surfaces.
- Available as a reusable or disposable tool with a variety of Diamond or Silicone Carbide ScrubPADs.

ErgoSCRUB® Applications

Technology	Tool	ErgoSCRUB® Part Number
CVD	AMAT & Novellus HDP Ceramic Domes	FT900 or FT901
CVD	Novellus Concept One and Two heater blocks	FT950 or FT951
Sputter & Evaporator	Shield and component scrubbing for AMAT, TEL, and Anelva Tools	FT900 or FT901
Etch	DPS Metal and Poly upper chambers	FT900 or FT901
Implant	AMAT, Axcelis, or Varian, source, beamline, MRS components and process chambers.	FT900 or FT901
Wafer	Silicon Reactor and EPI Chambers	FT900 or FT901
Memory Disk	Intevac 250B Sputter Bombs	FT900 or FT901
CMP	AMAT Reflexion and Mirra Mesa Cross and Shield Cleaning	FT900 or FT901

ErgoSCRUB® Products

ErgoSCRUB®

FT900 - Soft Handle - disposable : This model is meant for easy scrubbing of domes and other circular surfaces.

FT901 - Soft Handle with Loop Backing = Reusable

FT950 - Hard Handle: This model is meant for scrubbing flat surfaces.

FT951 - Hard Handle with Loop Backing = Reusable

ScrubDISKS®

Available ranging from 140 to 4000 grit Diamond, PSA (Pressure Sensitive Adhesive)

Available ranging from 140 to 4000 grit Diamond, Loop (For Easy Replacement)

Please check out the Products page of our website to find out ordering information for ScrubDISKS®.



www.foamtecintlwc.com

USA +1.866.922.7160 +1.760.599.7160 fax +1.760.599.7322 Thailand +66.3574717 fax +66.35740744

Rev. D