

PRODUCTS FOR SEMICONDUCTOR MANUFACTURING

CERAMICS CONSUMABLES	S&D Materials supplies spare parts and consumable items made from a set of materials grouped as 'ceramics' for semiconductor manufacturing equipment from many OEMs used in all process areas. Both OEM original and approved second source parts are available in new, pre-owned and refurbished conditions, and we access real time inventory data within a worldwide network of part providers in addition to our in-house inventory.			
	MATERIALS	PARTS	PROCESS AREAS	OEMS
	Fused quartz Synthetic sapphire Silicon carbide (SiC) Silicon Ceramic Alumina	Hot edge ring, retaining ring, focus ring, electrode, showerhead, nozzle, lamp tray, window, viewport, cover, collar, tray, boat, end effector	ALD, CVD, Diffusion, Etch, Ion implant, PVD, Sputter	AMAT, Axcelis, ASTeX, Gasonics, LAM Research, Mattson, Novellus, Matrix, Oerlikon, Ulvac, Varian

CRITICAL ITEMS	When circumstances force a critical tool offline, the urgency to obtain a needed part increases rapidly with every hour production is lost. S&D employs creative methods to get you the item you need faster – queue management, stock swaps, buffer stock, consignment stock – and we will exhaust every available option to improve delivery.	
	PRODUCT GROUP	SPECIAL SERVICES
	Ceramics consumables Heater blocks, pedestal, ESCs Bellows, Chillers Assemblies, Kits	<ul style="list-style-type: none"> ▪ TOOL DOWN™ Worldwide Expedite service ▪ Real Time availability data in 500+ warehouses ▪ Customer-specific Buffer Stock ▪ On Site Consignment Programs available

INT'L SUPPLY CHAIN MGT	When the ideal product or service for your situation resides with a new or unknown supplier, particularly an international one, the transaction can bring some risk, a cash flow impact, warranty agreement and possibly other issues. S&D has developed the experience and an international network of trading partners to enable us to offer individual transaction management or long term supply chain support in these situations.	
	SERVICE	DESCRIPTION
	Overseas sourcing: QA Quality Assurance: Transaction guarantee: Transaction financing: Issue management: Warranty enforcement:	Secure, trusted access to hundreds of low priced overseas suppliers Quality gatekeeper; ensure accuracy, form, fit and function of all items Responsible for satisfactory delivery of goods or services. Eliminate, absorb or neutralize prepayment requirements Work on customers behalf to resolve any issues during or after transaction Manage any warranty issues to final satisfactory resolution

|

|

|