



Filtration Products by 3M

Product Portfolio for Purification



Our **Expertise** Engineering in **Filtration**

Expertise - Experience - Flexibility - Innovation

3M Purification's Engineering department comprising of experienced engineers and technical specialists, is available to analyse every specification detail for designing customised solutions for each specific application.

Scientific Application Support **Services**

The corner stone of 3M Purification's philosophy is service to customers, not only in product quality and prompt delivery, but also in validation, application support and in the sharing of scientific information.

3M Purification's Scientific Applications Support Services works closely with customers to solve difficult filtration challenges and to recommend the most efficient, economical filter system. SASS specialists can perform on-site testing and utilise filtration applications expertise to partner with customers.

3M Purification resolves filtration problems promptly and efficiently in a cost-effective, confidential manner.

Fluid Process & HealthCare Product Overview	LifeASSURE™				
	PFS & MFE Series	BA, BNA & BDA Series	ER & EF Series	020SA, 020SP, 045SP & 020ST Series	BLA, PLA, EMC & IMC Series
	<ul style="list-style-type: none"> Formerly known as Microfluor. PTFE pleated media Absolute ratings at 0.2 µm. Sterile filtration of air, gases and solvents. Filtration area from 0.17 to 4.08 m². Validation guide – DMF Available as capsules or cartridges. 	<ul style="list-style-type: none"> Formerly known as BevASSURE. LifeASSURE BA containing Nylon and LifeASSURE BNA & BDA. Advanced Pleated Technology (APT). Available in 0.2 µm, 0.45 µm and 0.65 µm. 	<ul style="list-style-type: none"> Formerly known as Electropor. Charged modified (or non) Nylon 6,6 technology and FlexN. Pleated media including Advanced Pleated Technology (APT). Ratings from 0.04 µm to 0.8 µm sterile filtration Filtration area from 0.11 to 4 m². Validation guides and DMF. Available as discs, capsules or cartridges. 	<ul style="list-style-type: none"> Formerly known as Zetapor. Pleated media. Absolute ratings from 0.2 µm to 0.05 µm. Sterile filtration. Filtration area from 0.12 to 2.6 m². Validation guide – DMF. Available as discs, capsules or cartridges. 	<ul style="list-style-type: none"> Formerly known as LifeASSURE. New concept of multi-zone FlexN membrane combined with innovative Advanced Pleated Technology (APT). Exceptional performance of final Nylon 6,6 membranes. Extended life time. Filtration flexibility. Available in 0.2 µm, 0.45 µm, 0.65 µm and 0.8 µm.

Electronics	LifeASSURE MFE Grades 0.2, 0.1 & 0.05 µm Acids, solvents, strippers, Ultra Pure Chemicals, Photoresists, Tank venting, Gas filtration		LifeASSURE EF LifeASSURE ER From 0.45 µm to 0.04 µm Ultra Pure Water, Photoresists, Solvents		LifeASSURE EMC Fine Chemicals
Power Generation					
Chemicals	Polymers, Inorganic solutions, Corrosives products, Aggressive solvents, Tank venting		LifeASSURE ER Solvents and reagents		LifeASSURE IMC Fine Chemicals
Oil & Gas					
Paint & Coatings				Sterile fluids	LifeASSURE IMC Jet Ink
General Industrial	Tank venting, Sterile gas filtration			Sterile fluids	LifeASSURE IMC Utilities

Biotechnology	Tank venting, Sterile compressed air & gases			LifeASSURE 020SP, 045 SP and 020ST	LifeASSURE PLA Antibiotics, Diagnostics, Growth Media, Process Water, Vaccines, Blood fractionation
Fine Chemicals & Cosmetics	Tank venting, Sterile compressed air & gases, Solvents, Acids & bases			LifeASSURE 020SP, 045 SP and 020ST	LifeASSURE PLA Solvents, Process Water
Pharmaceuticals	Tank venting, Sterile compressed air & gases			LifeASSURE 020SP, 045 SP and 020ST	LifeASSURE PLA Ophthalmics, Parenterals (LVP, SVP), Process Water
Food & Beverage	Tank venting, Sterile compressed air, Nitrogen filtration	Final Filtration, Beer, Wine, Bottled Water, Water in Food processing			LifeASSURE BLA Pre & Final Filtration, Wine, Beer, Bottled Water, Fruit Juice, Soft drinks, Other beverages



Fluid Process & HealthCare Product Overview	LifeASSURE™			Zeta Plus™	
	PDA Series	PSA Series	PSN Series	C(P) & S(P), HT, U(2) & U(2)W, ZA & EC Series	MH & EXT Series
	<ul style="list-style-type: none"> Formerly known as BioASSURE. Combination of 2 hydrophilic asymmetric polyether sulfone membrane layers. Advanced Pleated Technology (APT). High throughput and fast flow applications. Validated 0.2 µm absolute rate. Available in Cartridge and Capsule format. 	<ul style="list-style-type: none"> Formerly known as SterASSURE. FlexN Multi-zone Membrane Design. Advanced Pleated Technology (APT). Available in 0.1 and 0.2 µm absolute rating in Cartridge, Mini Cartridge and Capsule format. Nylon 6,6 membrane in an all-polypropylene construction. Validated and DMF. 	<ul style="list-style-type: none"> Formerly known as PhotoSHIELD. Naturally hydrophilic Nylon 6,6 technology. Pleated media including Advanced Pleated Technology. High efficiency contaminant removal at 0.04 µm, 0.1 µm or 0.2 µm micron ratings. Filtration area from 0.16 m² to 1.04 m². Available as 50 mm capsules, capsules or cartridges. 	<ul style="list-style-type: none"> Composite media Charged modified technology Graded density media. Multi-zones technology. Validation support for pharmaceutical grades -DMF Filtration area from 25 cm² to 3.5 m² per cartridge Available as discs, capsules or cartridges. 	<ul style="list-style-type: none"> Formerly known as Maximizer. Charged modified technology. Graded density media. Lipid selective absorption. Filtration area from 25 cm² to 3.5 m² per cartridge. Available as discs, capsules or cartridges.

Electronics			Photoresists, Ancillary Chemicals, Alcohols & Bases, Developers, Etchants & Strippers, Solvents	Zeta Plus HT, C, CP, S & SP Pre Reverse Osmosis, Colloids retention, Metal ion removal, Cooling water - Waste water Zeta Plus EC Photoresists, Resins, Solvents	
Power Generation				Zeta Plus S & SP Rinsing water, Radioactive effluents, Colloids retention Waste water Zeta-Plus U, U2, UW & U2W Di-electric oils, Turbine Oils	
Chemicals				Zeta Plus HT, C, CP, S & SP Hydraulic oil Silicone, lubricant, Additives, emulsions, Polyurethanes, resins, Effluent, waste water	
Oil & Gas				Zeta-Plus U, U2, UW & U2W Transformer Oil, Lube Oil, Machine Oil, Fuels, Quenching Oils	
Paint & Coatings				Zeta Plus HT, C, CP, S & SP Varnish, viscous resins, pigments, Can coating, Organic glass	
General Industrial				Zeta Plus HT Process water, waste water, Agrochemicals, Pesticides, Additives, Galvanic baths	

Biotechnology	Biologicals, Cell Culture, Chromatography column protection, Vaccines, Media & Fermenter feed streams, High protein feed streams, Serum & Blood fractionation	Biologicals, Cell Culture, Chromatography column protection, Vaccines, Media & Fermenter feed streams, High protein feed streams, Serum & Blood fractionation		Zeta Plus ZA Clarification of Cell Culture process fluids, of bacteria and yeast cells lysates, of colloidal and haze forming contaminants Endotoxin & nucleic acid removal Protection of downstream processing	EXT ZA & EXT SP Vaccines, cell culture, Parenterals solutions, Blood fractionation, Virus reduction, Pyrogen removal - DNA retention, Water stations - Lipid retention, Chromatography column protection
Fine Chemicals & Cosmetics	Solvent filtration	Solvent filtration		Zeta Plus S & SP Clarification of perfumes, carbon fines removal, precipitate removal, removal of residual catalysts, water systems	EXT ZA & EXT SP Clarification of perfumes, carbon fines removal, precipitate removal, removal of residual catalysts, water systems
Pharmaceuticals	Ophthalmics, Parenterals (LVP, SVP), Bulk pharmaceutical chemicals, High purity DI water & WFI systems, Orals & Topicals	Ophthalmics, Parenterals (LVP, SVP), Reagents & Buffers, Bulk pharmaceutical chemicals, High purity DI water & WFI systems, Orals & Topicals		Zeta Plus S & SP Clarification of oral liquids and syrups, prefiltration of parenteral products, water systems	EXT ZA & EXT SP Clarification of oral liquids and syrups, prefiltration of parenteral products, water systems
Food & Beverage				Zeta Plus C, CP, S & SP Wine, Beer, Juices, Soft drinks, Cider, Liquor, Cognac, Vinegar, Syrup, Brines, Edible oil & Sugar Zeta Plus HT Beverage, Spirits, Food Products	Zeta Plus MH Wine, Beer, Bottled water, Brandy (Vodka, Cognac), Vinegar, fruit juice, Syrups, Edible oils, Water stations



ZetaCarbon	MKCA	Micro-Klean™			
ZetaCarbon Series	MKCA Series	G Series	D Series	RT, RT-CSW & RW Series	RP Series
<ul style="list-style-type: none"> Activated carbon & charged modified technology. Different standard carbons or "à la carte" formulations. Filtration area from 25 cm² to 3.5 m² per cartridge. Available in discs, capsules or cartridges. Can replace bulk activated carbon. 	<ul style="list-style-type: none"> Cartridge canister including granular activated carbon. About 400 ml of activated carbon. Pre and post filtration, including a Micro-Klean G or U Series cartridge. 	<ul style="list-style-type: none"> Formerly known as Micro-Klean. Acrylic/cellulose fibres & Phenolic/melamine resin. True grade porosity filters. Grooved depth media cartridges. Nominal rating from 1 to 125 µm. Available in cartridges from 10" to 40". 	<ul style="list-style-type: none"> Formerly known as Micro-Wynd. Polypropylene (or cotton) media. Depth filtration media. Exclusive process which combines blanket media and wound matrix (yarn). Available in cartridges from 10" to 40". High temp. resistance (up to 121 °C). Nominal ratings from 1 to 125 µm. 	<ul style="list-style-type: none"> Formerly known as PolyKlean. All propylene depth filter. Rigid Extrusion Bonded technology. Nominal rating from 1 to 75 µm. Available in cartridges from 9 ¼" to 40". 	<ul style="list-style-type: none"> Rigid all propylene depth filter. Advanced graded porosity design. Grooved cartridge with extended surface area. Coreless filter structure. Nominal rating are 5 µm, 25 µm and 50 µm. Continuous integral length filter element (up to 40" length).

R51S range Dechlorination, Process water, Waste water	Potable water, Dechlorination	Galvanic bath, pre-filtration (PCB)	Electrolytic baths, Waste water, First water prefiltration	PCBs, CMP Slurry Manufacturing, FPD, TFT-LCD, Pre-RO, CD/DVD	
		Cooling water, Lubricant fluids	Waste water	Condensate water treatment	
R53S range Silicone oils, Lubricating oils, Resins		Chemicals pre-filtration, Fatty acids, Organic solvents, Raw Materials	Acids prefiltration, Process water, Alcohols, solvents	PE-PP, Intermediate grade, Chemicals, PVC-VCM, Herbicides, Pesticides	
		Hydrocarbons, Fuels, Waxes, Process water, Waste water	Refined products prefiltration, Aggressive solvents	Amine & Glycol, Prefiltration in waterflood, Process cooling water, Completion fluids	
		Paint or varnish pre-filtration, Solvent recovery, Resin pre-filtration		Resin manufacturers (water & solvents), Trade & architectural paints, Ink	
R51S range Dechlorination, Process water, Waste water	Dechlorination, Effluent treatment	Cutting oils, Hydraulic fluids, Waste water, Detergents, Grease	Metallisation bath, Waste water	Plating, De-salination Plants, Pulp & Paper, Additives, Process cooling water, Parts washing, Peroxide, Mechanical Seals	

Decolourisation, Impurity removal	Dechlorination			Clarification & membrane protection for growth media, vaccines, cell culture & Blood fractionation	
Decolourisation, Alcohol decolourisation, catalyst removal	Dechlorination			Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system	
Decolourisation, Impurity removal	Dechlorination			Oral liquids and syrups, Clarification and membrane protection, water systems	Pre-Reverse Osmosis, Bulk Chemicals, Rinse Water, Active Pharmaceutical Ingredients
Decolourisation, Taste & Odour removal from spirits, Liquid Sugar			Beverage prefiltration, Process water	Soft drinks, Bottled water, Ready-to-drink beverages, Juice	Bottled Water, Ready-to-Drink Beverages, Dairy Products, Juices, Soft Drinks, Process & Blending Water



Fluid Process & HealthCare Product Overview	Betapure™				Betafine™
	AU Series	NT-P & NT-T Series	BK-Z8 & BK-Z2 Series	P Series	DP & XL Series
	<ul style="list-style-type: none"> Formerly known as Betapure. Polypropylene (or polyester) media. Bi-component fibre technology. Depth filtration. Micron rating from 2 µm absolute to 200 µm nominal. Classification effect. Available in cartridges from 10" to 40" integral length and capsules. 	<ul style="list-style-type: none"> Formerly known as PolyNet. Polypropylene depth media. High flow rates & dirt holding capacity. 0.5 to 70 µm absolute rating. Validation support DMF n° for the Pharma grade. Available in 10 to 40 inch cartridges integral length and capsules. 	<ul style="list-style-type: none"> Formerly known as Beta-Klean. Acrylic/cellulose fibres & Phenolic/melamine resin. True grade porosity filters. Depth media. Absolute rating from 10 to 70 µm. Available in cartridges from 10" to 40". 	<ul style="list-style-type: none"> Formerly known as Petro-Klean. True grade porosity filters. Cellulose fibres & melamine resin. Depth media. Absolute rating from 10 to 60 µm. Available in cartridges from 10" to 40". 	<ul style="list-style-type: none"> Formerly known as Betafine and Betafine XL. Polypropylene pleated media. XL Series with APT pleat technology. Long service life and high flow rates. Rating from 0.2 to 70 µm absolute. Available in cartridges from 9 ¾" to 40" integral length and capsules.

Electronics	Polyolefin range Demineralised water, Solvents, Effluents	NT-T Grade UPW per RO, CMP slurries, emulsions, Etching baths, metallisation baths, Acids, cooling water	Pre Reverse osmosis, Etching bath		CD & hard disks, Printed Circuit Boards, Flat screens, Ultra Pure Water
Power Generation	Polyolefin range Process water Equipment protection	NT-T Grade Stator cooling water, Waste water, Effluents, Condensate water	Cooling water, Condensate water		
Chemicals	Polyester range Aggressive solvents	NT-T Grade High Purity Chemicals, Acids, bleach, Polymers (PP,PE,...), Process water	Acids, Caustic solutions, Solvents, Final Product	Monomers, Polymers, Solvents	Intermediate product clarification, Various acid & caustic solutions, Solvents, polymers, Rinsing water
Oil & Gas		NT-T Grade Amines, glycols, Refined products	Refined products, Jet fuel, Waxes	Amine sweetening, Glycol dehydration, Refined products, Solvents, Process water, Gas Filtration	
Paint & Coatings	Polyolefin & Polyester range Waterborne or solvent paints, Car paints - Varnish, top coat, metallics, mica - Can & coil coatings, Inks, special papers	NT-T Grade Special coatings (paper, film), Magnetic media, Can & coil coating, High quality inks, Lens coating	Paint or varnish pre-filtration, Solvent recovery, Resin pre-filtration		Photographic films, Special inks, Special papers
General Industrial	Polyolefin & Polyester range Cooling water, Solvent recovery	NT-T Grade Cutting oils, lubricants, Detergents, pulp & paper, Textiles, metallisation bath, Process Water	Inks pre-filtration, Paints, Solvents, Metal rolling mills		Process water, Galvanic baths, Cutting emulsion, Detergents DP Range General Industrial

Biotechnology		NT-P Grade Clarification & membrane protection for growth media, vaccines, cell culture & Blood fractionation			Clarification & membrane protection for growth media, vaccines, cell culture & Blood fractionation
Fine Chemicals & Cosmetics		NT-P Grade carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system			Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system
Pharmaceuticals		NT-P Grade Oral liquids and syrups, Clarification and membrane protection, water systems			Oral liquids and syrups, Clarification and membrane protection, water systems
Food & Beverage		NT-T Grade Wine, Beer, Bottled water, Spirits (vodka, cognac,...), Edible oils, Process water			Pre Filtration, Wine, Beer, Bottled water, Process water



Betafine™			CUNO™		
PBG, PEG & PPG Series	T Series	CMP Series	DF System Series	High Flow Series	CTG System Series
<ul style="list-style-type: none"> Formerly known as Polypro XL. Polypropylene pleated media. APT pleat technology. Rating from 0.2 to 10 µm absolute. Available in cartridges from 10" to 40" integral length and capsules. 	<ul style="list-style-type: none"> Formerly known as TSM. Durable and versatile pleated media cartridge offering the ultimate sub-micron filtration. Tighter chemical resistance. 	<ul style="list-style-type: none"> Formerly known as Optima. All polypropylene filter. High capacity depth filter. Multi-zone graded-porosity design. Absolute rating from 0.3 to 50 µm. Available from 4" to 30" as cartridge or capsule. 	<ul style="list-style-type: none"> Formerly known as DuoFLO. True grade porosity & depth Filter media. Available in Polypropylene and Polyester. Nominal rating from 1 to 200 µm. Available in length 1 & 2. 	<ul style="list-style-type: none"> Radial Pleat Design. Blown microfibre, all polypropylene construction. High flow capacity. Absolute rating from 1 µm to 70 µm. Available in 40" and 60". 	<ul style="list-style-type: none"> Formerly known as CTG-Klean. This unique system consists in a pack including CTG cartridges. Fluid is isolated from the housing. Ease of use. Labour cost reduction. No cross contamination. Environment/Worker protection.

PEG range High Purity Chemicals pre-filtration, Nickel sulphamate baths, Multi layer PCB		Di-electrics, STI, ILD, Polysilicon, Tungsten, Copper, Magnetic heads, Nickel & Glass substrates, Optical Fibre, LED	Etching Baths, Process Water/RO pre-filtration, CDs & DVDs, Photochemicals, Solvents, Printed Circuit Manufacturing	RO Pre-filtration, Process Water	CMP slurries
			Process Water, Cooling Water, Waste Water,	Process Water	Contaminated water, Radioactive effluents
Hydrogen Peroxide			Acids, Chemicals, Process Water, Alcohols, Glycols, Fuels, Resins, Alkalines, Catalyst Recovery, Esters, Silicones, Aerosol Products Mineral Oil, Waxes, Solvents	Quench water, Aqueous Salt Solutions, Final Products	Toxic/hazardous products, Solvents, Oils, Acids, caustic solutions
			Fuel Additives, Glycols, Lube Oils, Distillation, Enhanced Oil Recovery, Amines, Fuels, Injection Fluids	Waterflood, Produced water, Enhanced Oil Recovery, Completion fluids, Final Products	
			Electrodeposition, Trade Paint, Can Coatings, Dispersions, Adhesives, Paper Coatings, Automotive Plants, Architectural Paint, Resins, Coil Coatings, Printing Ink	Water Treatment	Industrial or car paints (Solvent, waterborne), Resins, varnish, solvents, Inks, adhesives, Can & coil coating, Magnetic media
			Parts Washing, Pulp & Paper, Cooling Water, Lubricants, Ground Water, Waste Water, Hydraulic Fluids, Machine Tool Coolants, Transformer Oil	Municipal water, RO pre-filtration, Reclaimed water, Coolants, Nozzle protection, Boiler condensate	Agrochemicals, Dispersions, Pigments

PPG & PTG Versions Clarification & membrane protection for growth media, vaccines, cell culture & Blood fractionation			Biomass, Precipitate removal		General clarification, Catalyst recovery
PPG, PTG or PEG Versions carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system	Perfumes & aftershave lotions, assuring stability & shelf life through removal of colloidal haze & bacteria., solvent filtration, water systems, removal of carbon fines		Activated carbon, Solids removal		
PPG & PTG Versions Oral liquids and syrups, Clarification and membrane protection, water systems	Membrane prefiltration & clarification, water systems, Prefiltration of many parenteral products		Bulk solids, Precipitate removal	Process water	
PBG Version Pre Filtration, Wine, Beer, Bottled water, Spirits (vodka, cognac, ...), Edible oils, Process water	Yeast removal, Clarification of wine, Final polishing of distilled spirits		Vegetable and edible oil, Syrups, honey, Wine, Beer, Other high viscous drinks	Bottled Water, Beer Trap Filtration, Process water	Artificial flavours, Colouring, Food where you wish to avoid cross contamination



Fluid Process & HealthCare Product Overview	CUNO™		Nominal Bags	High Efficiency Bags	High Capacity
	MS Series Cleanable Filters	DDS, EG, EGS, G, GH & GP Series Cleanable Filters	Nominal Bag Series	100 & 500 Series	700 Series
	<ul style="list-style-type: none"> Formerly known as Micro-Screen MS & Super MS cleanable metallic filters. Depth or surface media. Usable under severe process conditions (up to 480°C) ΔP max = 14 bar. Ratings from 3 to 1000 µm. 	<ul style="list-style-type: none"> Formerly known as Turno-Klean. Self cleaning metallic filters. Manual or motorised purges. Usable up to 260°C. Micron ratings from 35 to 750 µm. 	<ul style="list-style-type: none"> Polypropylene and polyester felt and nylon monofilament materials. Specially designed plastic sealing collar. Nominal ratings in Polypro & Polyester from 1 µm to 200 µm and in nylon from 25 to 1200 µm. Available in size 1 and 2. 	<ul style="list-style-type: none"> All meltblown polypropylene microfibre filter media. Ratings are nominal: the 100 Series from 1.5 to 34 µm and the 500 Series from 2.5 to 48 µm. 	<ul style="list-style-type: none"> All meltblown polypropylene microfibre filter media except PERP-740 KF range which is polyester microfibre filter media. Ratings are: 740B, 740B30 and 740 KF Series from 1 to 70 µm. ERP-740KF Series available in 20 & 60 µm.

Electronics	Gas filtration (High pressure cryogenic)		Magnetic media, Organic solvents, Photo chemicals, Plating solutions, RO membranes	Magnetic media, Organic solvents, Photo chemicals, Plating solutions, RO membranes	Magnetic media, Organic solvents, Photo chemicals, Plating solutions, RO membranes
Power Generation	Seal protection, Pressurized gases	Fuel Oil	Water & Effluent Treatment	Water & Effluent Treatment	Water Treatment
Chemicals	Fatty acids, Aggressive products (acids,etc...), Polymers, Vapour	Fatty acids, Waxes, Glues	Acids, Bases, Glycol, Desalination	Acids, Bases, Glycol, Desalination	Acids, Bases, Glycol, Desalination
Oil & Gas	Waxes, Grease	Viscous oils, Grease, Asphalt, Fuel, Instrument Protection	Amines, Completion fluids, Deep wells, Glycol	Amines, Completion fluids, Deep wells, Glycol	Amines, Completion fluids, Deep wells, Glycol
Paint & Coatings	Galvanic solutions, Hydraulic fluids	Varnish, Resins	Prefiltration, Batch processing, Tanker loading	Prefiltration, Batch processing, Oil removal	
General Industrial	Vapour filtration, Aggressive products	Enamels, High viscosity products, Waste Oil Treatment	DI resins, Ground water clean-up, Machine coolants, Waste water, Workover fluids, Parts Washing	DI resins, Ground water clean-up, Machine coolants, Waste water, Workover fluids, Parts Washing	DI resins, Ground water clean-up, Machine coolants, Waste water, Workover fluids, Municipal Water

Biotechnology	Steam filtration, Acid / caustic solutions		Biomass, Precipitate removal	Biomass, Precipitate removal	Biomass, Precipitate removal
Fine Chemicals & Cosmetics	Steam filtration, Acid / caustic solutions			Activated carbon, Solids removal	Activated carbon, Solids removal
Pharmaceuticals	Steam filtration, Acid / caustic solutions	Lotions & Soap, Tooth paste	Bulk solids, Precipitate removal	Bulk solids, Precipitate removal	Bulk solids, Precipitate removal
Food & Beverage	Oils, Syrups, Steam	Chocolate, Vegetable oils, Edible fats, Honey	General Food Applications including water	General Food Applications including water	General Food Applications



NanoSHIELD™	Housing Ranges				
NanoSHIELD Series	Plastic Housing Series	Sanitary Housing Series	High Flow Housing Series	Stainless Steel Housing Series	Special Housing Series
<ul style="list-style-type: none"> Hollow Fibre Technology (HFT). Polypropylene and Polyethylene construction. Superior flow with minimal pressure drop and highest level of filter efficiency in compact design. Available in Capsules and Cartridges. 	<ul style="list-style-type: none"> Core Line Example: 1N Series Range. Manufactured from a high impact plastic for added strength and specifically designed to meet most industrial application requirements for liquid filtration. 	<ul style="list-style-type: none"> Core Line Examples: IP and IW Series Range. Housings in 316 L stainless steel with seals from a variety of elastomeric materials. Compatible with most process applications (also for CIP and SIP procedures). Interior & exterior polished & crevice-free internal finish. Fully CE according to PED. 	<ul style="list-style-type: none"> Core Line Example: HF Series Range. Stainless steel, external surfaces glassbead blasted. Code stamped according to ATEX Group II, Category 3, T5 & PED 97/23/EC rated Category I. Available in 40" and 60", horizontal or vertical configurations. Compact design with High flow. 	<ul style="list-style-type: none"> Core Line Examples: CT, CH, DS, HC, ME, WTC and WTB Series Range. Manufactured standard filter housings in 316L or 304L Stainless Steel. Also electropolishing possible. 	<ul style="list-style-type: none"> In-house design and fabrication services deliver standard or customized versions of housing products in standard or exotic materials to the exacting standards required by the customer.

Photoresist, Etchants & strippers, Alcohols, Bases, Developers, Solvents		Fine Chemicals	RO Pre-filtration, Process Water	General chemicals, Utilities	Bespoke High Quality finished vessels
			Process Water	Coolant Water, Lube Oils	Large, Heavy duty vessels for condensate treatment
Fine Chemicals			Quench water, Aqueous Salt Solutions, Final Products	Final Products, Raw Materials, Effluent Treatment	Lined Vessels for aggressive chemicals
			Waterflood, Produced water, Enhanced Oil Recovery, Completion fluids, Amine Sweetening, Final Products	Final Products, Amine, Glycols	Heavy Duty Carbon Steel for onshore and offshore installations
			Water Treatment	Production and formulation processes, Application systems	Specialised cleanable vessels
	Plating, Galavanic processing, Parts washing, Machine coolants		Municipal water, RO pre-filtration, Reclaimed water, Coolants, Nozzle protection, Boiler condensate	Tanker Loading, Parts Washing, Raw Materials, Gas Treatment, Water Processing	Capital Expenditure Projects requiring bespoke solutions

		Critical Applications			
		Critical Applications			
		Critical Applications	Process water		
		Critical Applications	Bottled Water, Beer Trap Filtration, Process water		
					

3M Water Filtration Product Overview	RESIDENTIAL and LEISURE			
	Drinking Water Systems	Whole House Filtration	Softeners	Reverse Osmosis
	<ul style="list-style-type: none"> Systems to treat tap water for drinking including chlorine taste and odour reduction and scale inhibition. 	<ul style="list-style-type: none"> Systems to treat all the water coming into the house or vehicle/vessel for chlorine taste and odour sediment and optional scale inhibition. 	<ul style="list-style-type: none"> Small commercial / residential systems for softening water by ion exchange. 	<ul style="list-style-type: none"> Reverse Osmosis units to fit under your sink.

Under sink	Scalegard® Pro Tastemaster Plus Aqua Pure Easy range			SQC3, SQC4 SQC Pro 40, SQC Pro80
Point of Entry		Aqua Pure drop in - 9.75" Aqua Pure Jumbo drop in	CWS075ME CWS100ME CWS150ME (Middle East only)	
Caravan & Marine	US-E1 Chlorine taste and odour reduction US-E2 Microbial reduction	WV-B3-S Microbial reduction and scale inhibition		
				

FOODSERVICE			
HF Range	European POU Range	Reverse Osmosis	UV
<ul style="list-style-type: none"> Range of systems with carbon block and carbon block with membrane using IMPACT technology. Also resin-based scale reduction range Scalegard® Pro 	<ul style="list-style-type: none"> 3 ranges of Point-of-Use water cooler systems to meet size, capacity, claim set and ease of change out requirements. 	<ul style="list-style-type: none"> Foodservice Reverse Osmosis systems for coffee machines, vending machines and steamers and combi ovens. 	<ul style="list-style-type: none"> Range of 220V Ultra Violet light systems and accessories for commercial use.

Coffee	BREW HF range OCS Range Scalegard® Pro range			UV range
Espresso and Vending	Scalegard® Pro range		SGLP-RO TFS300 BEV150	
POU Water Coolers		AP1 range AP2 range AP3 range		UV range
Post Mix machines	BEV HF range CFS8000/9000 ranges			
Ice machines	ICE HF range CFS9000 range			
Steamers and Combi Ovens	Scalegard® Pro range		SGLP-RO	SGLP-RO



Efficient & Economic filtration Solution from a World Leader in Purification

3M Purification Core technologies:

Membranes, Depth filters, Cleanable Filters, Housings, Engineered Filtration System

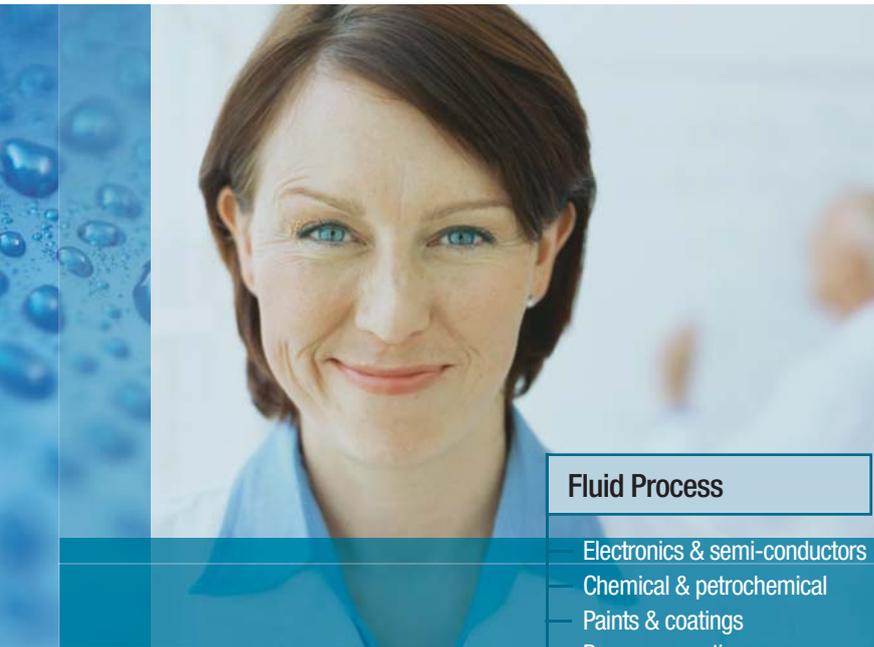
3M Purification Service Worldwide:

Branch offices and approved distributors, SASS : Application support group for each market

3M Purification Worldwide operations:

ISO certified plants





Fluid Process

- Electronics & semi-conductors
- Chemical & petrochemical
- Paints & coatings
- Power generation
- General Industry

HealthCare

- Pharmaceutical
- Biological
- Biotechnology
- Diagnostics
- Food & beverage

3M Water Filtration

- Residential
- Leisure
- Food Service & Vending

For more information, contact your local 3M Purification representative or distributor.

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3M United Kingdom plc 3M Purification

3M Centre, Cain Road
Bracknell, RG12 8HT
United Kingdom
Tel.: 0845 602 5237
Fax: +44 (0)1344 858559
E-mail: innovation.uk@mmm.com

For more contact addresses visit our website www.3M.eu/filtration or www.3Mpurification.com/international.

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