

3M Purification

Product Portfolio Catalogue

LENNTECH

info@lenntech.com Tel. +31-152-610-900

www.lenntech.com Fax. +31-152-616-289



Filtration Products by 3M

Product Portfolio for Purification



3M Purification Filtration Products

Product Portfolio Brochure

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.

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



Industrial & Life Science Product Overview	LifeASSURE™				
	PFS & MFE Series	BA, BNA & BDA Series	ER & EF Series	020SA, 020SP, 045SP & 020ST Series	BLA & PLA Series
	- 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.	- Formerly known as BevASSURE. - LifeASSURE BA containing Nylon and LifeASSURE BNA & BDA. - Advanced Pleat Technology (APT). - Available in 0.2 µm, 0.45 µm and 0.65 µm.	- Formerly known as Electropor. - Charged modified (or non) Nylon 6,6 technology. - Multi-zone microporous membrane and Advanced Pleat Technology (APT) design. - 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.	- 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.	- Formerly known as LifeASSURE. - Multi-zone microporous membrane combined with Advanced Pleat 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		
Power Generation					
Chemicals	Polymers, Inorganic solutions, Corrosives products, Aggressive solvents, Tank venting		LifeASSURE ER Solvents and reagents		
Oil & Gas					
Paint & Coatings				Sterile fluids	
General Industrial	Tank venting, Sterile gas filtration			Sterile fluids	
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
					

Industrial & Life Science Product Overview	LifeASSURE™				
	PDA Series	PSA Series	PSN Series	PNA Series	EMC & IMC Series
	- Formerly known as BioASSURE. - Combination of 2 hydrophilic asymmetric polyether sulfone membrane layers. - Cartridges and capsules with Advanced Pleat Technology. - High throughput and fast flow applications. - Validated 0.2 µm absolute rate. - Available in <i>gamma</i>-compatible and sterile formats.	- Formerly known as SterASSURE. - Multi-zone microporous membrane design. - Advanced Pleat 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.	- Formerly known as PhotoSHIELD. - Naturally hydrophilic Nylon 6,6 technology. - Pleated media including Advanced Pleat 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.	- Asymmetric polyethersulfone membrane with Advanced Pleat Technology construction. - Available in 0.2 and 0.45 µm. 100% integrity tested prior to release. - Regulatory Support File. - Filtration area 0.79 m²per 10" equivalent cartridge length. - Available as cartridges from 10" to 40".	- Multi-zone microporous membrane combined with Advanced Pleat Technology (APT) design. - 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			Photoresists, Ancillary Chemicals, Alcohols & Bases, Developers, Etchants & Strippers, Solvents		LifeASSURE EMC Fine Chemicals
Power Generation					
Chemicals					LifeASSURE IMC Fine Chemicals
Oil & Gas					
Paint & Coatings					LifeASSURE IMC Jet Ink
General Industrial					LifeASSURE IMC Utilities

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 fraction		Fermenter feed streams, Serum & Blood fractionation, Biologicals, Diagnostics, Chromatography column protection, Cell Culture	
Fine Chemicals & Cosmetics	Solvent filtration	Solvent filtration			
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		Ophthalmics, Large Volume Parenterals (LVP), Reagents & Buffers, Bulk pharmaceutical chemicals, High purity DI water & WFI systems, Orals & Topicals	
Food & Beverage					
					

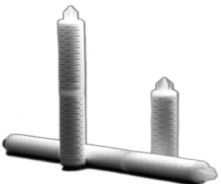
NanoSHIELD™		Micro-Klean™			
NanoSHIELD Series	MKCA Series	RB Series	D Series	RT, RC & RW Series	RP Series
- Hollow Fibre Technology (HFT). Polypropylene and Polyethylene construction. - Superior flow with minimal pressure drop and highest level of filter efficiency in compact design. - Available in capsules and cartridges.	- Cartridge canister including granular activated carbon. - About 400 ml of activated carbon. - Pre and post filtration, including a Micro-Klean RB Series cartridge.	- Formerly known as Micro-Klean. - Acrylic/cellulose fibres & Phenolic/melamine resin. - True grade porosity filters. - Grooved and ungrooved depth media cartridges. - Nominal rating from 1 to 125 µm. - Available in cartridges from 10" to 40".	- 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.	- 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".	- Rigid all propylene depth filter. - Advanced graded porosity design. - Grooved cartridge with extended surface area. - Coreless filter structure. - Nominal ratings are 5 µm, 25 µm and 50 µm. - Continuous integral length filter element (up to 40" length).
Photoresist, Etchants & strippers, Alcohols, Bases, Developers, Solvents	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	
Fine Chemicals		Chemicals pre-filtration, Fatty acids, Organic solvents, Raw Materials	Acids prefiltration, Process water, Alcohols, solvents	PE-PP, Intermediate grade, Chemicals, PVC-VCN, 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	
	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	
	Dechlorination			Clarification & membrane protection for growth media, vaccines, cell culture & Blood fractionation	
	Dechlorination			Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system	
	Dechlorination			Oral liquids and syrups, Clarification and membrane protection, water systems	Pre-Reverse Osmosis, Bulk Chemicals, Rinse Water, Active Pharmaceutical Ingredients
			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
					

Industrial & Life Science Product Overview	Betapure™				
	AU Series	NT-P & NT-TE Series	BK-Z8 & BK-Z2 Series	PK Series	CMP Series
	- 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.	- 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.	- 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".	- 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".	- 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.

Electronics	Polyolefin range Demineralised water, Solvents, Effluents	NT-TE Grade UPW per RO, CMP slurries, emulsions, Etching baths, metallisation baths, Acids, cooling water	Pre Reverse osmosis, Etching bath		Di-electrics, STI, ILD, Polysilicon, Tungsten, Copper, Magnetic heads, Nickel & Glass substrates, Optical Fibre, LED
Power Generation	Polyolefin range Process water Equipment protection	NT-TE Grade Stator cooling water, Waste water, Effluents, Condensate water	Cooling water, Condensate water		
Chemicals	Polyester range Aggressive solvents	NT-TE Grade High Purity Chemicals, Acids, bleach, Polymers (PP,PE,...), Process water	Acids, Caustic solutions, Solvents, Final Product	Monomers, Polymers, Solvents	
Oil & Gas		NT-TE 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-TE 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		
General Industrial	Polyolefin & Polyester range Cooling water, Solvent recovery	NT-TE Grade Cutting oils, lubricants, Detergents, pulp & paper, Textiles, metallisation bath, Process Water	Inks pre-filtration, Paints, Solvents, Metal rolling mills		

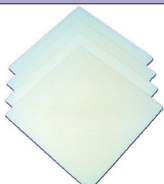
Biotechnology		NT-P Grade Clarification & membrane protection for growth media, vaccines, cell culture & Blood fractionation			
Fine Chemicals & Cosmetics		NT-P Grade carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system			
Pharmaceuticals		NT-P Grade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



Betafine™			Zeta Plus™		
PBG, PEG & PPG Series	T Series	XL Series	C(P) & S(P), HT, U(2) & U(2)W, ZA & EC Series	MH & EXT Series	Encapsulated Filter System Series
- 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.	- Formerly known as TSM. - Durable and versatile pleated media cartridge offering the ultimate sub-micron filtration. - Tighter chemical resistance.	- Polypropylene pleated media. - 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.	- 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.	- 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.	- Single-use depth filtration system consisting of a holder, manifolds and capsules. - Ergonomically designed holder (large model can pivot) with vertical flow path. - Manifold with solid core in encapsulated shell. - Self-guiding locking mechanism. - Lenticular cartridge design. - Double-layer and single-layer Zeta Plus filter media inside.
PEG range High Purity Chemicals pre-filtration, Nickel sulphamate baths, Multi layer PCB		CD & hard disks, Printed Circuit Boards, Flat screens, Ultra Pure Water	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		
			Zeta Plus S & SP Rinsing water, Radioactive effluents, Colloids retention Waste water Zeta-Plus U, U2, UW & U2W Di-electric oils, Turbine Oils		
Hydrogen Peroxide		Intermediate product clarification, Various acid & caustic solutions, Solvents, polymers, Rinsing water	Zeta Plus HT, C, CP, S & SP Hydraulic oil Silicone, lubricant, Additives, emulsions, Polyurethanes, resins, Effluent, waste water		
			Zeta-Plus U, U2, UW & U2W Transformer Oil, Lube Oil, Machine Oil, Fuels, Quenching Oils		
		Photographic films, Special inks, Special papers	Zeta Plus HT, C, CP, S & SP Varnish, viscous resins, pigments, Can coating, Organic glass		
		Process water, Galvanic baths, Cutting emulsion, Detergents	Zeta Plus HT Process water, waste water, Agrochemicals, Pesticides, Additives, Galvanic baths		
PPG & PTG Versions Clarification & membrane protection for growth media, vaccines, cell culture & Blood fractionation		Clarification & membrane protection for growth media, vaccines, cell culture & 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	Clarification of mammalian cell culture harvest & bacteria, yeast and insect cell lysates, HCPs, virus and DNA reduction, Protein aggregates, endotoxin & anti-foaming agents reduction, Protection downstream processes
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	Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system	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	
PPG & PTG Versions Oral liquids and syrups, Clarification and membrane protection, water systems	Membrane prefiltration & clarification, water systems, Prefiltration of many parenteral products	Oral liquids and syrups, Clarification and membrane protection, water systems	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	
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	Pre Filtration, Wine, Beer, Bottled water, Process water	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	
					

Industrial & Life Science Product Overview	ZetaCarbon	CUNO™			3M™
	ZetaCarbon Series	CTG System Series	Metal Screen Filters Series	Self Cleaning Metal Filters	J3000 Series
	- 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.	- 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.	- Formerly known as Micro-Screen - Metal Screen & Super Metal Screen 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.	- Formerly known as Turno-Klean. - DDS, EG, EGS, G, GH and GP Series - Self cleaning metallic filters. - Manual or motorised purges. - Usable up to 260°C. - Micron ratings from 35 to 750 µm.	- Complete system of cartridges and housings that is modular and can be automated. - An all-propylene construction. - An enclosed system. - Available from a single housing to a manual or automated skid. - Pleated filter media and sanitary housings and skids. - ATEX and PED compliant. - Easy to install and operate.

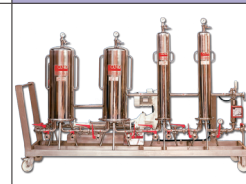
Electronics	R51S range Dechlorination, Process water, Waste water	CMP slurries	Gas filtration (High pressure cryogenic)		
Power Generation		Contaminated water, Radioactive effluents	Seal protection, Pressurized gases	Fuel Oil	
Chemicals	R53S range Silicone oils, Lubricating oils, Resins	Toxic/hazardous products, Solvents, Oils, Acids, caustic solutions	Fatty acids, Aggressive products (acids, etc...), Polymers, Vapour	Fatty acids, Waxes, Glues	
Oil & Gas			Waxes, Grease	Viscous oils, Grease, Asphalt, Fuel, Instrument Protection	
Paint & Coatings		Industrial or car paints (Solvent, waterborne), Resins, varnish, solvents, Inks, adhesives, Can & coil coating, Magnetic media	Galvanic solutions, Hydraulic fluids	Varnish, Resins	
General Industrial	R51S range Dechlorination, Process water, Waste water	Agrochemicals, Dispersions, Pigments	Vapour filtration, Aggressive products	Enamels, High viscosity products, Waste Oil Treatment	
Biotechnology	Decolourisation, Impurity removal	General clarification, Catalyst recovery	Steam filtration, Acid / caustic solutions		
Fine Chemicals & Cosmetics	Decolourisation, Alcohol decolourisation, catalyst removal		Steam filtration, Acid / caustic solutions		
Pharmaceuticals	Decolourisation, Impurity removal		Steam filtration, Acid / caustic solutions	Lotions & Soap, Tooth paste	
Food & Beverage	Decolourisation, Taste & Odour removal from spirits, Liquid Sugar	Artificial flavours, Colouring, Food where you wish to avoid cross contamination	Oils, Syrups, Steam	Chocolate, Vegetable oils, Edible fats, Honey	Wine and spirits production
					

3M™					
HN Series	DF System Series	High Flow Series	NB Series	100 & 500 Series	740 Series
- Depth filter sheets constructed of high quality cellulose and inorganic filtration additives bound by a resin. - Grades from 1HN to 150HN available in 3 dimensions. - Excellent mechanical resistance. - Broad chemical compatibility. - Hot water sanitisation.	- 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.	- Radial Pleat Design. - Blown microfibre, all polypropylene construction. - High flow capacity. - Absolute rating from 1 µm to 70 µm. - Available in 40" and 60".	- Polypropylene and polyester felt and nylon monofilament materials. - Nominal bags - 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.	- All meltblown polypropylene microfibre filter media. - High efficiency bags - Ratings are nominal: the 100 Series from 1.5 to 34 µm and the 500 Series from 2.5 to 48 µm.	- All meltblown polypropylene microfibre filter media except PERP-740 KF range which is polyester microfibre filter media. - High capacity filters - Ratings are: 740B, 740B30 and 740 KF Series - From 1 to 70 µm. - ERP-740KF Series - Available in 20 & 60 µm.
	Etching Baths, Process Water/RO pre-filtration, CDs & DVDs, Photochemicals, Solvents, Printed Circuit Manufacturing	RO Pre-filtration, Process Water	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
	Process Water, Cooling Water, Waste Water,	Process Water	Water & Effluent Treatment	Water & Effluent Treatment	Water Treatment
	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	Acids, Bases, Glycol, Desalination	Acids, Bases, Glycol, Desalination	Acids, Bases, Glycol, Desalination
	Fuel Additives, Glycols, Lube Oils, Distillation, Enhanced Oil Recovery, Amines, Fuels, Injection Fluids	Waterflood, Produced water, Enhanced Oil Recovery, Completion fluids, Final Products	Amines, Completion fluids, Deep wells, Glycol	Amines, Completion fluids, Deep wells, Glycol	Amines, Completion fluids, Deep wells, Glycol
	Electrodeposition, Trade Paint, Can Coatings, Dispersions, Adhesives, Paper Coatings, Automotive Plants, Architectural Paint, Resins, Coil Coatings, Printing Ink	Water Treatment	Prefiltration, Batch processing, Tanker loading	Prefiltration, Batch processing, Oil removal	
	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	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
	Biomass, Precipitate removal		Biomass, Precipitate removal	Biomass, Precipitate removal	Biomass, Precipitate removal
	Activated carbon, Solids removal			Activated carbon, Solids removal	Activated carbon, Solids removal
	Bulk solids, Precipitate removal	Process water	Bulk solids, Precipitate removal	Bulk solids, Precipitate removal	Bulk solids, Precipitate removal
Wine	Vegetable and edible oil, Syrups, honey, Wine, Beer, Other high viscous drinks	Bottled Water, Beer Trap Filtration, Process water	General Food Applications including water	General Food Applications including water	General Food Applications
					

Industrial & Life Science Product Overview	Housing Ranges				
	Plastic Housing Series	Sanitary Housing Series	High Flow Housing Series	Stainless Steel Housing Series	Special Housing Series
	- 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.	- 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.	- 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.	- 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.	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.

Electronics		Fine Chemicals	RO Pre-filtration, Process Water	General chemicals, Utilities	Bespoke High Quality finished vessels
Power Generation			Process Water	Coolant Water, Lube Oils	Large, Heavy duty vessels for condensate treatment
Chemicals			Quench water, Aqueous Salt Solutions, Final Products	Final Products, Raw Materials, Effluent Treatment	Lined Vessels for aggressive chemicals
Oil & Gas			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
Paint & Coatings			Water Treatment	Production and formulation processes, Application systems	Specialised cleanable vessels
General Industrial	Plating, Galvanic 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

Biotechnology		Critical Applications			Bespoke High Quality finished housings for critical applications
Fine Chemicals & Cosmetics		Critical Applications			Bespoke High Quality finished housings for critical applications
Pharmaceuticals		Critical Applications	Process water		Bespoke High Quality finished housings for critical applications
Food & Beverage		Critical Applications	Bottled Water, Beer Trap Filtration, Process water		Bespoke High Quality finished housings for critical applications



3M Water Filtration Product Overview	RESIDENTIAL and LEISURE			
	Drinking Water Systems	Whole House Filtration	Softeners	Reverse Osmosis
	Systems to treat tap water for drinking including chlorine taste and odour reduction and scale inhibition.	Systems to treat all the water coming into the house or vehicle/vessel for chlorine taste and odour sediment and optional scale inhibition.	Small commercial / residential systems for softening water by ion exchange.	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
- Range of systems with carbon block and carbon block with membrane using IMPACT technology. - Also resin-based scale reduction range ScaleGard® Pro	3 ranges of Point-of-Use water cooler systems to meet size, capacity, claim set and ease of change out requirements.	Foodservice Reverse Osmosis systems for coffee machines, vending machines and steamers and combi ovens.	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 TFS450 SGLP2-BL	
POU Water Coolers		AP1 range AP2-G 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		SGLP2-BL HFR0-90	SGLP-RO
				



Industrial Electronics & semi-conductors Chemical & petrochemical Paints & coatings Power generation General Industry	Life Science 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.

Important Notice

The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the Product(s) in a particular application, some of which are uniquely within your knowledge and control. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION.

It is your responsibility to determine if additional testing or information is required and if this product is fit for a particular purpose and suitable in your specific application.

3M PURIFICATION MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

Limitation of Liability

3M Purification will not be liable for any loss or damage arising from the use of the Product(s), whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.