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 cornerstone 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
<table>
<thead>
<tr>
<th><strong>Industrial &amp; Life Science</strong></th>
<th><strong>Product Overview</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>LifeASSURE™</strong></td>
<td><strong>PFS &amp; MFE Series</strong></td>
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<tr>
<td></td>
<td><strong>BA, BNA &amp; BDA Series</strong></td>
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<td><strong>ER &amp; EF Series</strong></td>
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<td></td>
<td><strong>020SA, 020SP, 045SP &amp; 020ST Series</strong></td>
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<td></td>
<td><strong>BLA &amp; PLA Series</strong></td>
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</tbody>
</table>

- Formerly known as Microflor,
- 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 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.

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**Electronics**

LifeASSURE MFE
- Grades 0.2, 0.1 & 0.05 μm
- Acids, solvents, strippers, Ultra Pure Chemicals, Photoresists, Tank venting, Gas filtration

LifeASSURE EF
- From 0.45 μm to 0.04 μm
- Ultra Pure Water, Photoresists, Solvents

LifeASSURE ER
- Solvents and reagents

**Power Generation**

LifeASSURE 020SP, 045SP and 020ST
- Tank venting, Sterile compressed air & gases

LifeASSURE PLA
- Antibiotics, Diagnostics, Growth Media, Process Water, Vaccines, Blood fractionation

**Chemicals**

Polymers, Inorganic solutions, Corrosives products, Aggressive solvents, Tank venting

**Oil & Gas**

Paint & Coatings

**General Industrial**

Tank venting, Sterile gas filtration

**Biotechnology**

Tank venting, Sterile compressed air & gases

**Fine Chemicals & Cosmetics**

Tank venting, Sterile compressed air & gases, Solvents, Acids & bases

**Pharmaceuticals**

Tank venting, Sterile compressed air & gases

**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

---

**LifeASSURE MFE**
- Grades 0.2, 0.1 & 0.05 μm
- Acids, solvents, strippers, Ultra Pure Chemicals, Photoresists, Tank venting, Gas filtration

**LifeASSURE EF**
- From 0.45 μm to 0.04 μm
- Ultra Pure Water, Photoresists, Solvents

**LifeASSURE ER**
- Solvents and reagents

**LifeASSURE 020SP, 045SP and 020ST**
- Tank venting, Sterile compressed air & gases

**LifeASSURE PLA**
- Antibiotics, Diagnostics, Growth Media, Process Water, Vaccines, Blood fractionation

**LifeASSURE BLA**
- Pre & Final Filtration, Wine, Beer, Bottled Water, Fruit Juice, Soft drinks, Other beverages
<table>
<thead>
<tr>
<th>LifeASSURE™</th>
<th>PDA Series</th>
<th>PSA Series</th>
<th>PSN Series</th>
<th>PNA Series</th>
<th>EMC &amp; IMC Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Formerly known as BioASSURE.</td>
<td>• Formerly known as SteriASSURE.</td>
<td>• Formerly known as PhotoSHIELD.</td>
<td>• Assymbetric polyethersulfone membrane with Advanced Pleat Technology (APT) design.</td>
<td>• Multi-zone microporous membrane combined with Advanced Pleat Technology (APT) design.</td>
<td></td>
</tr>
<tr>
<td>• Combination of 2 hydrophilic asymmetric polyether sulfone membrane layers.</td>
<td>• Multi-zone microporous membrane design.</td>
<td>• Naturally hydrophilic Nylon 6,6 technology.</td>
<td>• Naturally hydrophilic Nylon 6,6 membrane with Advanced Pleat Technology construction.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Cartridges and capsules with Advanced Pleat Technology.</td>
<td>• Advanced Pleat Technology (APT).</td>
<td>• Pleated media including Advanced Pleat Technology.</td>
<td>• Available in 0.2 and 0.45 µm.</td>
<td></td>
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</tr>
<tr>
<td>• High throughput and fast flow applications.</td>
<td>• Available in 0.1 and 0.2 µm absolute rating in Cartridge, Mini Cartridge and Capsule format.</td>
<td>• High efficiency contaminant removal at 0.04 µm, 0.1 µm or 0.2 µm micron ratings.</td>
<td>• 100% integrity tested prior to release.</td>
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</tr>
<tr>
<td>• Validated 0.2 µm absolute rate.</td>
<td>• Nylon 6.6 membrane in an all-polypolylene construction.</td>
<td>• Filtration area from 0.16 m² to 1.04 m².</td>
<td>• Regulatory Support File.</td>
<td></td>
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</tr>
<tr>
<td>• Available in gamma-compatible and sterile formats.</td>
<td>• Available as 50 mm capsules, capsules or cartridges.</td>
<td>• Available as 0.79 m² per 10” equivalent cartridge length.</td>
<td>• Filtration area 0.79 m² per 10” equivalent cartridge length.</td>
<td></td>
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</tr>
<tr>
<td>• Formerly known as SteriASSURE.</td>
<td>• Advanced Pleat Technology (APT).</td>
<td>• Available in 0.1 and 0.2 µm absolute rating in Cartridge, Mini Cartridge and Capsule format.</td>
<td>• Available in 0.2, 0.45, 0.65 and 0.8 µm.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Multi-zone microporous membrane combined with Advanced Pleat Technology (APT) design.</td>
<td>• Exceptional performance of final Nylon 6,6 membrane.</td>
<td>• Nylon 6,6 membrane in an all-polypolylene construction.</td>
<td>• Filtration flexibility.</td>
<td></td>
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</tr>
<tr>
<td>• Extended life time.</td>
<td>• Filtration area 0.79 m² per 10” equivalent cartridge length.</td>
<td>• Validated and DMF.</td>
<td>• Available in 0.2 µm, 0.45 µm, 0.65 µm and 0.8 µm.</td>
<td></td>
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</tr>
</tbody>
</table>
### NanoSHIELD™
- 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.

<table>
<thead>
<tr>
<th>NanoSHIELD Series</th>
<th>MKCA Series</th>
<th>RB Series</th>
<th>D Series</th>
<th>RT, RC &amp; RW Series</th>
<th>RP Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Hollow Fibre Technology (HFT), Polypropylene and Polyethylene construction.</td>
<td>• Cartridge canister including granular activated carbon.</td>
<td>• Formerly known as Micro-Klean.</td>
<td>• Formerly known as PolyKlean.</td>
<td>• Rigid all propylene depth filter.</td>
<td>• Rigid all propylene depth filter.</td>
</tr>
<tr>
<td>• Superior flow with minimal pressure drop and highest level of filter efficiency in compact design.</td>
<td>• About 400 ml of activated carbon.</td>
<td>• Acrylic/cellulose fibres &amp; Phenolic/melamine resin.</td>
<td>• Depth filtration media.</td>
<td>• Advanced graded porosity design.</td>
<td>• Advanced graded porosity design.</td>
</tr>
<tr>
<td>• Available in capsules and cartridges.</td>
<td>• Pre and post filtration, including a Micro-Klean RB Series cartridge.</td>
<td>• True grade porosity filters.</td>
<td>• Exclusive process which combines blanket media and wound matrix (yarn).</td>
<td>• Grooved and ungrooved depth media cartridges.</td>
<td>• Grooved and ungrooved depth media cartridges.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Grooved and ungrooved depth media cartridges.</td>
<td>• Available in cartridges from 10” to 40”</td>
<td>• Nominal rating from 1 to 75 μm.</td>
<td>• Nominal rating from 1 to 75 μm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Nominal ratings from 1 to 125 μm.</td>
<td>• Available in cartridges from 9 14” to 40”.</td>
<td>• Available in cartridges from 9 14” to 40”.</td>
<td>• Available in cartridges from 9 14” to 40”.</td>
</tr>
</tbody>
</table>

### Micro-Klean™
- Cartridge canister including granular activated carbon.
- Formerly known as Micro-Klean.
- About 400 ml of activated carbon.
- Pre and post filtration, including a Micro-Klean RB Series cartridge.
- Formerly known as Micro-Wynd.
- Formerly known as Micro-Wynd.
- Formerly known as PolyKlean.
- Formerly known as PolyKlean.
- 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”.
- Grooved and ungrooved depth media cartridges.
- Nominal rating from 1 to 125 μm.
- Available in cartridges from 10” to 40”.

### Application Areas

<table>
<thead>
<tr>
<th>Photoresist, Etchants &amp; strippers, Alcohols, Bases, Developers, Solvents</th>
<th>Potable water, Dechlorination</th>
<th>Galvanic bath, pre-filtration (PCB)</th>
<th>Electrolytic baths, Waste water, First water pretreatment</th>
<th>PCBs, CMP Slurry Manufacturing, FPD, TFT-LCD, Pre-RO, CD/DVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling water, Lubricant fluids</td>
<td>Waste water</td>
<td>Condensate water treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Photomask, Pre-Filtration, Image</td>
<td>Resin manufacturers (water &amp; solvents), Trade &amp; architectural paints, Ink</td>
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</tr>
</tbody>
</table>

### Dechlorination

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<thead>
<tr>
<th>Dechlorination</th>
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<tbody>
<tr>
<td>Clarification &amp; membrane protection for growth media, vaccines, cell culture &amp; Blood fractionation</td>
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<tr>
<td>Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system</td>
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<tr>
<td>Pre-Reverse Osmosis, Bulk Chemicals, Rinse Water, Active Pharmaceutical Ingredients</td>
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</tbody>
</table>
## Industrial & Life Science Product Overview

<table>
<thead>
<tr>
<th>Betapure™</th>
<th>AU Series</th>
<th>NT-P &amp; NT-TE Series</th>
<th>BK-Z8 &amp; BK-Z2 Series</th>
<th>PK Series</th>
<th>CMP Series</th>
</tr>
</thead>
</table>
| • 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 filtration.  
  • Absolute rating from 0.3 to 50 μm.  
  • Available from 4” to 30” as cartridge or capsule. | • Formerly known as Petro-Klean.  
  • True grade porosity filters.  
  • Cellulose fibres & melamine resin.  
  • Depth filtration.  
  • 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

<table>
<thead>
<tr>
<th>Polyolefin range</th>
<th>NT-TE Grade</th>
<th>Pre Reverse osmosis, Etching bath</th>
<th>Di-electrics, STI, ILD, Polysilicon, Tungsten, Copper, Magnetic heads, Nickel &amp; Glass substrates, Optical Fibre, LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyolefin range</td>
<td>Polyolefin range</td>
<td>NT-TE Grade</td>
<td>Cooling water, Condensate water</td>
</tr>
<tr>
<td>Polyolefin range</td>
<td>Polyolefin range</td>
<td>NT-TE Grade</td>
<td>Acids, Caustic solutions, Solvents, Paints, Waxes</td>
</tr>
<tr>
<td>Polyolefin range</td>
<td>Polyolefin range</td>
<td>NT-TE Grade</td>
<td>Refined products, Jet fuel, Waxes</td>
</tr>
<tr>
<td>Polyolefin range</td>
<td>Polyolefin range</td>
<td>NT-TE Grade</td>
<td>Amine sweetening, Glycol dehydration, Refined products, Solvents, Paints, Process water, Gas Filtration</td>
</tr>
</tbody>
</table>

## Power Generation

<table>
<thead>
<tr>
<th>Polyolefin range</th>
<th>NT-TE Grade</th>
<th>Cooling water, Condensate water</th>
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<td>Polyolefin range</td>
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## Chemicals

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## Oil & Gas

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## Paint & Coatings

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<tr>
<th>Polyolefin range</th>
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</table>

## General Industrial

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<thead>
<tr>
<th>Polyolefin range</th>
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## Biotechnology

<table>
<thead>
<tr>
<th>NT-P Grade</th>
<th>NT-P Grade</th>
<th>NT-P Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarification &amp; membrane protection for growth media, vaccines, cell culture &amp; Blood fractionation</td>
<td>Clarification &amp; membrane protection, water systems</td>
<td></td>
</tr>
<tr>
<td>Clarification &amp; membrane protection</td>
<td>Clarification &amp; membrane protection</td>
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</tbody>
</table>

## Fine Chemicals & Cosmetics

<table>
<thead>
<tr>
<th>NT-P Grade</th>
<th>NT-P Grade</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system</td>
<td>Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system</td>
<td></td>
</tr>
<tr>
<td>Carbon fines removal, precipitate removal, clarification of perfumes, solvent filtration, water system</td>
<td>Clarification &amp; membrane protection, water systems</td>
<td></td>
</tr>
</tbody>
</table>

## Pharmaceuticals

<table>
<thead>
<tr>
<th>NT-P Grade</th>
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</thead>
<tbody>
<tr>
<td>Oral liquids and syrups, Clarification and membrane protection, water systems</td>
<td>Oral liquids and syrups, Clarification and membrane protection, water systems</td>
</tr>
<tr>
<td>Oral liquids and syrups, Clarification and membrane protection, water systems</td>
<td>Oral liquids and syrups, Clarification and membrane protection, water systems</td>
</tr>
</tbody>
</table>

## Food & Beverage

<table>
<thead>
<tr>
<th>NT-TE Grade</th>
<th>NT-TE Grade</th>
<th>NT-TE Grade</th>
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</thead>
<tbody>
<tr>
<td>Wine, Beer, Bottled water, Spirits (vodka, cognac...), Edible oils, Process water</td>
<td>Wine, Beer, Bottled water, Spirits (vodka, cognac...), Edible oils, Process water</td>
<td></td>
</tr>
<tr>
<td>Wine, Beer, Bottled water, Spirits (vodka, cognac...), Edible oils, Process water</td>
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<td></td>
</tr>
</tbody>
</table>
### Betafine™

<table>
<thead>
<tr>
<th>PBG, PEG &amp; PPG Series</th>
<th>T Series</th>
<th>XL Series</th>
<th>C(P) &amp; S(P) Series</th>
<th>MH &amp; EXT Series</th>
<th>Encapsulated Filter System Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formerly known as Polyspun XL.</td>
<td>Formerly known as TSM.</td>
<td>Polypropylene pleated media.</td>
<td>Polypropylene pleated media.</td>
<td>Formerly known as Maximizer.</td>
<td>Single-use filtration system consisting of a holder, membrane, and capsule.</td>
</tr>
<tr>
<td>Durable and versatile pleated media cartridge offering the ultimate sub-micron filtration.</td>
<td>Series with APT pleat technology.</td>
<td>Series with APT pleat technology.</td>
<td>Charged modified technology.</td>
<td>Charged modified technology.</td>
<td></td>
</tr>
<tr>
<td>Tighter chemical resistance.</td>
<td>Long service life and high flow rates.</td>
<td>Rating from 0.2 to 70 μm absolute.</td>
<td>Graded density media.</td>
<td>Graded density media.</td>
<td></td>
</tr>
<tr>
<td>Available in cartridges from 10&quot; to 40&quot; integral length and capsules.</td>
<td>Rating from 0.2 to 70 μm absolute.</td>
<td>Available in cartridges from ¾&quot; to 40&quot; integral length and capsules.</td>
<td>Multi-zones technology.</td>
<td>Multi-zones technology.</td>
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</table>

#### PEG range

- High Purity Chemicals
- Pre-filtration
- Nickel sulphamate baths
- Multi-layer PCB
- 3.5 m² per cartridge.
- Manifold with solid core in vertical flow path.
- Self-guiding locking mechanism.
- Lenticular cartridge design.
- Double-layer and single-layer Zeta Plus filter media inside.

#### Zeta Plus™

- Formerly known as Polypro
- PBG, PEG & PPG Series
- Formerly known as TSM.
- Polypropylene pleated media.
- APT pleat technology.
- Formerly known as Polypro
- PBG, PEG & PPG Series
- Formerly known as TSM.
- Polypropylene pleated media.
- APT pleat technology.
- Formerly known as Polypro
- PBG, PEG & PPG Series
- Formerly known as TSM.
- Polypropylene pleated media.
- APT pleat technology.
- Formerly known as Polypro
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## Industrial & Life Science Product Overview

<table>
<thead>
<tr>
<th>ZetaCarbon</th>
<th>CUNO™</th>
<th>3M™</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZetaCarbon Series</td>
<td>CTG System Series</td>
<td>Metal Screen Filters Series</td>
</tr>
<tr>
<td>• Activated carbon &amp; charged modified technology.</td>
<td>• Formerly known as Micro-Screen.</td>
<td>• Formerly known as Tumo-Klean.</td>
</tr>
<tr>
<td>• Different standard carbons or &quot;à la carte&quot; formulations.</td>
<td>• Metal Screen &amp; Super Metal Screen cleanable metallic filters.</td>
<td>• DDS, EGS, G, GH and GP Series</td>
</tr>
<tr>
<td>• Filtration area from 25 cm² to 3.5 m² per cartridge.</td>
<td>• Depth or surface media.</td>
<td>• Self-cleaning metallic filters.</td>
</tr>
<tr>
<td>• Available in discs, capsules or cartridges.</td>
<td>• Usable under severe process conditions (up to 480°C)</td>
<td>• Manual or motorised purges.</td>
</tr>
<tr>
<td>• Can replace bulk activated carbon.</td>
<td>• DP max = 14 bar.</td>
<td>• Usable up to 260°C.</td>
</tr>
</tbody>
</table>

### Electronics
- **RS1S range**
  - Dechlorination, Process water, Waste water
- **Gas filtration**
  - (High pressure cryogenic)
- **Contaminated water, Radiactive effluents**
- **Seal protection, Pressurized gases**
- **Fuel Oil**

### Power Generation
- **RS3S range**
  - Silicone oils, Lubricating oils, Resins
- **Toxic/hazardous products, Solvents, Oils, Acids, caustic solutions**
- **Fatty acids, Aggressive products (acids, etc...), Polymers, Vapour**
- **Waxes, Grease**
- **Viscous oils, Grease, Asphalt, Fuel, Instrument Protection**
- **Galvanic solutions, Hydraulic fluids**
- **Varnish, Resins**

### Chemicals
- **RS1S range**
  - Dechlorination, Process water, Waste water
- **Agrochemicals, Dispersions, Pigments**
- **Vapour filtration, Aggressive products**
- **Steam filtration, Acid / caustic solutions**
- **Enamels, High viscosity products, Waste Oil Treatment**

### Oil & Gas
- **Industrial or car paints (Solvent, waterborne), Resins, varnish, solvents, Ink, adhesives, Car & coil coating, Magnetic media**
- **Galvanic solutions, Hydraulic fluids**
- **Varnish, Resins**
- **Waxes, Grease**
- **Viscous oils, Grease, Asphalt, Fuel, Instrument Protection**

### Paint & Coatings
- **RS1S range**
  - Dechlorination, Process water, Waste water
- **Agrochemicals, Dispersions, Pigments**
- **Vapour filtration, Aggressive products**
- **Steam filtration, Acid / caustic solutions**
- **Enamels, High viscosity products, Waste Oil Treatment**

### General Industrial
- **Biotechnology**
  - Decolourisation, Impurity removal
- **General clarification, Catalyst recovery**
- **Steam filtration, Acid / caustic solutions**
- **General Portfolio EU r5 0912.indd**
  - 22/11/2012 9:04:34

### Fine Chemicals & Cosmetics
- **Decolourisation, Alcohol decolourisation, catalyst removal**
- **Steam filtration, Acid / caustic solutions**
- **Steam filtration, Acid / caustic solutions**
- **Lotions & Soap, Tooth paste**

### Pharmaceuticals
- **Decolourisation, Impurity removal**
- **Steam filtration, Acid / caustic solutions**
- **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**
<table>
<thead>
<tr>
<th>HN Series</th>
<th>DF System Series</th>
<th>High Flow Series</th>
<th>NB Series</th>
<th>100 &amp; 500 Series</th>
<th>740 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Depth filter sheets constructed of high quality cellulose and inorganic filtration additives bound by a resin.</td>
<td>• Formerly known as DuCLO. • True grade porosity &amp; depth filter media. Available in polypropylene and polyester. Nominal rating from 1 to 200 µm. Available in length 1 &amp; 2.</td>
<td>• Radial Pleat Design. • Blown microfibre, all polypropylene construction. • High flow capacity. • Absolute rating from 1 µm to 70 µm. Available in 40” and 60”.</td>
<td>• Polypropylene and polyester felt and nylon monofilament materials. • Nominal bags. • Specially designed plastic sealing collar. • Nominal ratings in polyprop &amp; polyester from 1 µm to 200 µm and in nylon from 25 to 1200 µm. Available in size 1 and 2.</td>
<td>• 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.</td>
<td>• 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 &amp; 60 µm.</td>
</tr>
</tbody>
</table>

| 3M™ |  |  |  |  |  |

<table>
<thead>
<tr>
<th>Etching Baths, Process Water/RG pre-filtration, CD &amp; DVDs, Photochemicals, Solvents, Printed Circuit Manufacturing</th>
<th>Process Water</th>
<th>Water &amp; Effluent Treatment</th>
<th>Water &amp; Effluent Treatment</th>
<th>Water Treatment</th>
</tr>
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<tr>
<td>Process Water</td>
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<td>Water Treatment</td>
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</tr>
<tr>
<td>Acids, Chemicals, Process Water, Alcohol, Glycols, Fuels, Resins, Alkalines, Catalyst Recovery, Esters, Silicones, Aerosol Products, Mineral Oil, Waxes, Solvents</td>
<td>Water Treatment</td>
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<tr>
<td>Electrodeposition, Trade Paint, Can Coatings, Dispersions, Adhesives, Paper Coatings, Automotive Plants, Architectural Paint, Resins, Coil Coatings, Printing Ink</td>
<td>Process Water</td>
<td>Water Treatment</td>
<td>Water Treatment</td>
<td>Water Treatment</td>
</tr>
<tr>
<td>Bulk solids, Precipitate removal</td>
<td>Process water</td>
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</tr>
<tr>
<td>Vegetable and edible oil, Syrups, honey, Wine, Beer, Other high viscous drinks</td>
<td>Bottled Water, Beer Trap Filtration, Process water</td>
<td>General Food Applications including water</td>
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<td>General Food Applications</td>
</tr>
</tbody>
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## Housing Ranges

<table>
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<tr>
<th>Plastic Housing Series</th>
<th>Sanitary Housing Series</th>
<th>High Flow Housing Series</th>
<th>Stainless Steel Housing Series</th>
<th>Special Housing Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Line Example: TN Series Range.</td>
<td>Core Line Example: IP and IW Series Range.</td>
<td>Core Line Example: HF Series Range.</td>
<td>Core Line Examples: CT, CH, DS, HC, ME, WTC and WTB Series Range.</td>
<td>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.</td>
</tr>
<tr>
<td>Manufactured from a high impact plastic for added strength and specifically designed to meet most industrial application requirements for liquid filtration.</td>
<td>Housings in 316L stainless steel with seals from a variety of elastomeric materials. Compatible with most process applications (also for CIP and SIP procedures). Interior &amp; exterior polished &amp; crevice-free internal finish. Fully CE according to PED.</td>
<td>Stainless steel, external surfaces glassbead blasted. Code stamped according to ATEX Group II, Category 3, T5 &amp; PED 97/23/EC rated Category I. Available in 40&quot; and 60&quot;, horizontal or vertical configurations. Compact design with high flow.</td>
<td>Manufactured standard filter housings in 316L or 304L Stainless Steel. Also electropolishing possible.</td>
<td></td>
</tr>
</tbody>
</table>

### Electronics
- Fine Chemicals & Cosmetics
- Critical Applications
- Bespoke High Quality finished housings for critical applications

### 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
- Water, Produced Water, Enhanced Oil Recovery, Compaction 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 Traps, Filtration, Process water
- Bespoke High Quality finished housings for critical applications
# 3M Water Filtration Product Overview

## RESIDENTIAL and LEISURE

<table>
<thead>
<tr>
<th>Drinking Water Systems</th>
<th>Whole House Filtration</th>
<th>Softeners</th>
<th>Reverse Osmosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Systems to treat tap water for drinking including chlorine taste and odour reduction and scale inhibition.</td>
<td>• Systems to treat all the water coming into the house or vehicle/vessel for chlorine taste and colour sediment and optional scale inhibition.</td>
<td>• Small commercial / residential systems for softening water by ion exchange.</td>
<td>• Reverse Osmosis units to fit under your sink.</td>
</tr>
</tbody>
</table>

## 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
- CVS100ME
- CVS150ME (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
- Range of systems with carbon block and carbon block with membrane using IMPACT technology.
- Also resin-based scale reduction range ScaleGard® Pro

### European POU Range
- 3 ranges of Point-of-Use water cooler systems to meet size, capacity, claim set and ease of change out requirements.

### Reverse Osmosis
- Foodservice Reverse Osmosis systems for coffee machines, vending machines and steamers and combi ovens.

### UV
- Range of 220V Ultra Violet light systems and accessories for commercial use.

### Coffee
- BREW HF range
- OCS Range
- ScaleGard® Pro range

### Espresso and Vending
- ScaleGard® Pro range
- SGLP-RO
- TFS450
- SGLP2-BL

### POU Water Coolers
- AP1 range
- AP2-G range
- AP3 range

### Post Mix machines
- BEV HF range
- CFS8000/9000 ranges

### Ice machines
- ICE HF range
- CFS8000 range

### Steamers and Combi Ovens
- ScaleGard® Pro range
- SGLP2-BL
- HFRO-90
- SGLP-RO
For more information, contact your local 3M Purification representative or distributor.

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