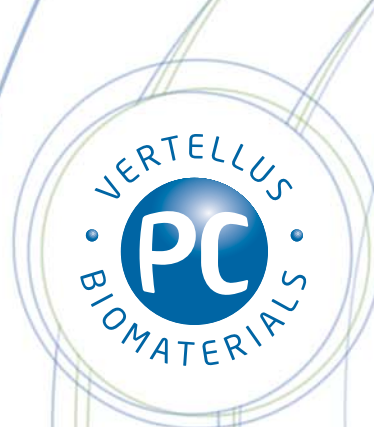


PC TECHNOLOGY™ in Healthcare Applications



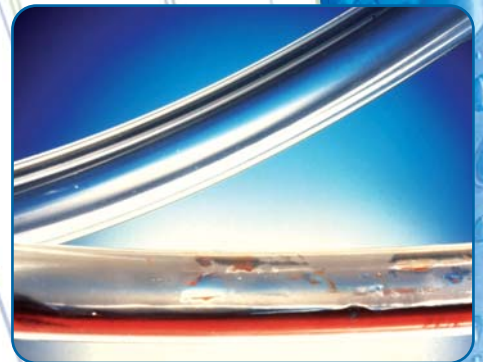
In a variety of applications, PC materials have been shown to improve the biocompatibility and performance of medical devices and materials through reduced:

- protein deposition / activation
- blood activation / thrombus formation
- bacterial adhesion
- biofilm deposition
- inflammatory response
- fibrous capsule formation

In addition, PC biomaterials have been shown to be excellent platforms for controlled delivery of a wide range of actives.

PC biomaterials have been used to successfully coat the following substrates:

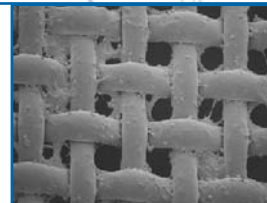
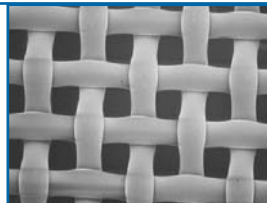
- Metals, including stainless steel, nitinol, titanium, gold, platinum
- Plastics, including polyolefins, PVC, PMMA, PET, PU, polycarbonate, polyamides, polyimides, polystyrene, PTFE
- Rubbers, including silicone, latex, PIB
- Glasses and ceramics
- Tooth enamel and other tissues



Bulk PC Biomaterials and coatings can provide solutions for stents, guidewires, blood circuit components, oxygenators, dialysis components, intra-ocular lenses, drains, shunts, filters, dental materials, catheters, bone fixation wires and screws and more.

Reduced protein deposition

A filter with and without PC Technology



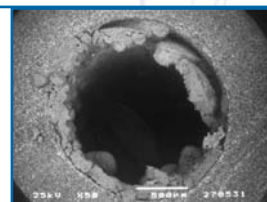
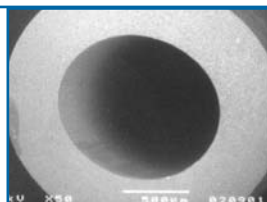
Reduced blood activation

A blood filter with and without PC Technology



Reduced biofilm formation

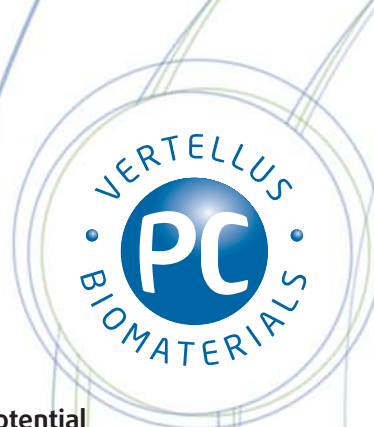
A ureteric catheter with and without PC Technology



For clinically proven biocompatibility

Contact us at: info@pcbiomaterials.com
More information at: www.pcbiomaterials.com

PC TECHNOLOGY™ in Non-Healthcare Applications



It is clear that the non-fouling and surfactant properties of PC have potential benefits outside of healthcare. Some examples of transferable properties, benefits and potential applications are summarised below:

Property	Benefit	Potential Application Areas
Reduced protein adhesion	Reduced fouling Easier cleaning Lower usage of harsh cleaning chemicals	Food and drink processing equipment Pharmaceutical processing equipment Non-toxic marine antifouling
Reduced bacterial adhesion and biofilm formation	As above plus reduced risk of infection / contamination / spoilage	Stay-clean / easy-clean surfaces for hospitals Water filtration systems Latex
Hydrophilicity and moisture retention	Enhanced moisturising and conditioning	Cosmetics Functional / active textiles
Delivery of actives	Active materials with other benefits as listed above	Cosmetics Nutraceuticals

Considering these properties, PC can bring potential benefits and cost savings to a variety of industries such as:

- Personal care
- Textiles
- Food and beverage
- Pharmaceutical
- Construction
- Filtration
- Water treatment
- Latex products

Working with customers

While Vertellus has its own development programmes that are addressing certain of these areas we also welcome approaches for collaboration from interested parties who recognise the value of PC and would like to investigate its use in new applications. Vertellus has considerable in-house expertise and experience in application development and engineering on which customers can rely when partnering with us in both our medical device and non-healthcare activities.

We prefer to adopt a collaborative approach for a technology partnership in order to achieve the best results. Key to this is appointment of appropriate representatives by both parties and frequent communications to ensure that needs are understood so the PC solution delivered fully meets expectations. For example, with a coating application the intention will be to develop a robust process that can be readily integrated into a manufacturing environment and easily managed by the customer.

Projects are conducted through feasibility, development and technology transfer with customer review at the end of each phase before moving to the next stage. Unlike some of our competitors we do not require you to sign up to a licence agreement from the outset and a program can be modified or terminated at any point. Throughout the commercialisation process, Vertellus remains available for consultation and support, particularly regarding regulatory submissions and marketing initiatives.

For clinically proven biocompatibility

Contact us at: info@pcbiomaterials.com
More information at: www.pcbiomaterials.com