



# **NEW!** PHARMACEUTICAL CONTACT GRADE VICTREX PC™101

A new PEEK polymer grade available in granules and film developed exclusively for the Drug Delivery device industry.

Let's push medical device design to the limit.



# WHO IS VICTREX PC™101 FOR?

Design Engineers at CDMOs, medical device and pharmaceutical companies who need materials capable of meeting 3 or more simultaneous high-level demands AND to comply with USP Class VI and USP 661 biocompatibility requirements.

## **VICTREX PC™101:**

Victrex PC™ 101 meets the highest levels of industry biocompatibility certification for USP Class VI and also meets industry standards such as USP 661 for use in non-implantable pharmaceutical contact applications.

## **USP 661:**

This material adds value by providing access to compliant materials for drug delivery and pharmaceutical equipment or devices. This has the potential to save cost, time and reduce risk, ultimately streamlining the commercialisation of products applications. <sup>[1]</sup>

Reference [1] "PC101 biocompatibility statement - available on Q pulse (MED-STA-0060)"



For pharmaceutical contact use and non-implantable medical applications VICTREX PC™ 101 high performance polymer specifically meets the most common performance criteria of:



Strength



Chemical Resistance



Wear Resistance



Toughness



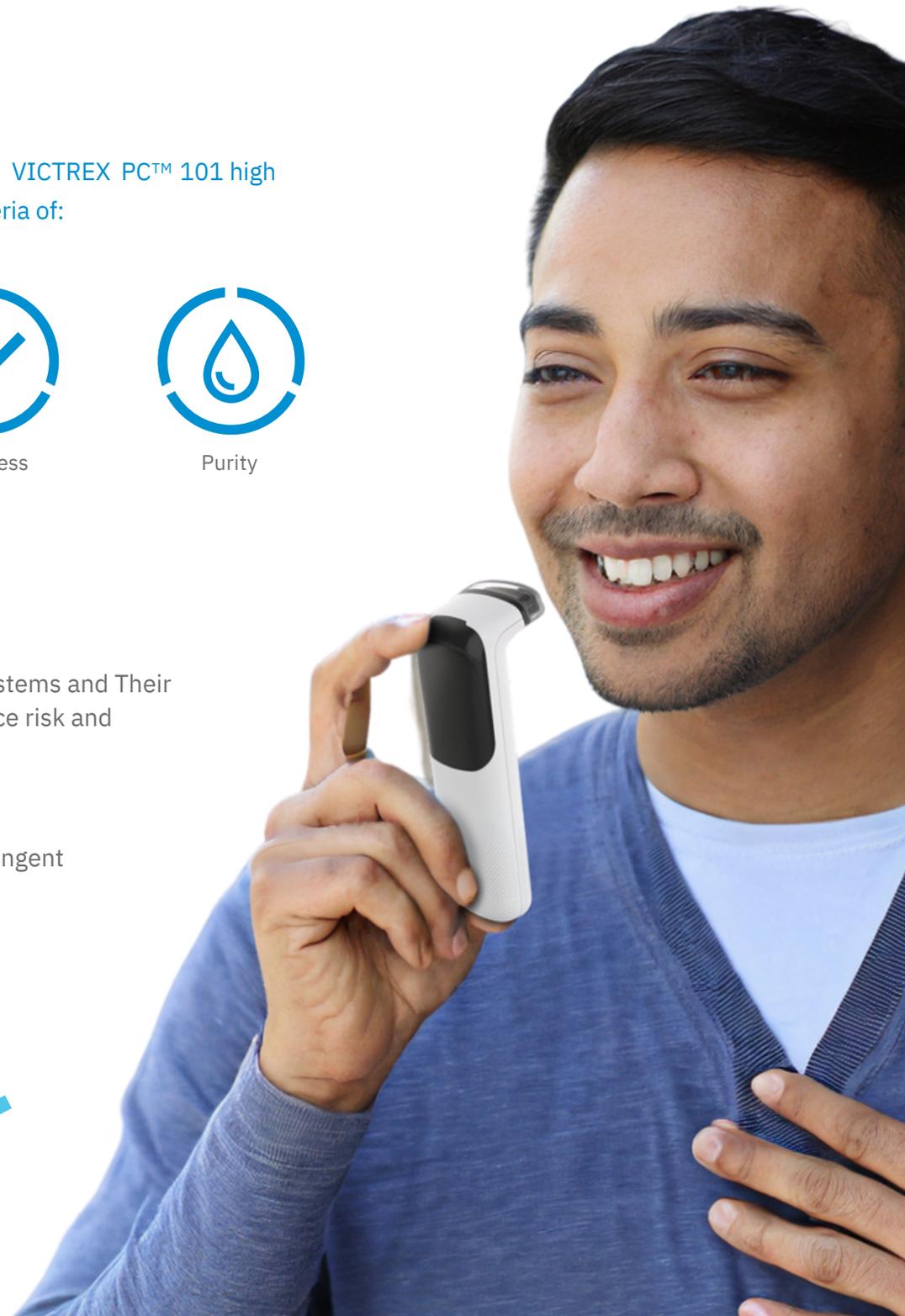
Purity

And to provide:

- ▶ USP Class VI compliance and USP 661 compliance - Plastic Packaging Systems and Their Materials of Construction, giving you the potential to save cost, time, reduce risk and enable a faster route to market
- ▶ High purity material - unfilled, no additives, no plasticisers, no fillers
- ▶ Chemical resistance - Victrex PEEK is tested to meet some of the most stringent chemical environments (NORSOK M710 and ISO 23936-1) [2]
- ▶ High performance
- ▶ PFAS free [3]

Reference [2] "NORSOK paper and statement, ISO information on file at Victrex."

Reference [3] "Have not been intentionally added, used or generated as by-products in the manufacturing processes."



# VICTREX PC™ 101 CARRIES ADDITIONAL CERTIFICATION FOR USP CLASS VI AND USP 661

These new materials add value to design engineers, medical device and pharmaceutical companies by providing assurance that the materials are ready for immediate use in drug delivery and pharma applications.



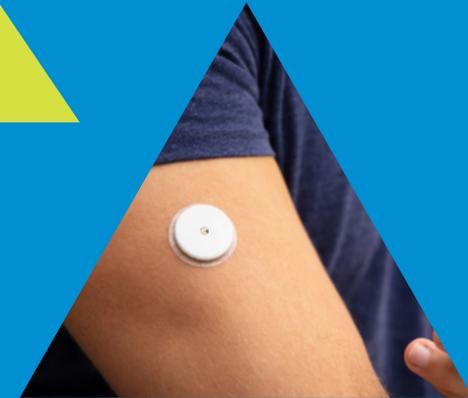
# COMMON APPLICATIONS AND COMPONENTS

## ▶ **Drug Delivery Devices** such as components for:

- Soft Mist inhalers - eg. High pressure dosing chamber, high pressure dosing and gears
- Injectable devices eg. plungers or pistons, gears
- Wearable devices eg. High pressure gears, electronics, skin contact

## ▶ **Manufacturing and Processing Equipment** such as components for:

- Aseptic Pharmaceutical / Biotechnology production and purification, filling and packaging
- Analytical and diagnostic equipment



# INNOVATING DRUG DELIVERY DEVICES

Innovation in drug delivery devices presents several challenges, in order to bring to market devices that enable

- ▶ improved patient compliance
- ▶ connected e-devices
- ▶ novel drug delivery systems
- ▶ smaller, lightweight, ergonomic devices

Victrix high performance polymers are well placed to solve complicated engineering problems with 3 or more design challenges.

We have 40+ years' experience in delivering polymer solutions in the most extreme environments from aerospace, automotive, electronics, food contact and implantable medical solutions.



# PHARMACEUTICAL AND MEDICAL CONTACT

- ▶ Meets highest levels of Industry certification for USP Class VI and Class 661
  - Fully meets industry standards required for biocompatibility of materials for use in pharmaceutical contact applications
  - Demonstrates compliance with widely accepted pharmaceutical standards, which can help to create an easier pathway to market.
- ▶ Classification of High performance Polymer
  - Meeting high levels of physical and chemical performance
  - Ideal for applications requiring sterilisation, retention of dimensional stability, chemical, electrical and temperature resistance
  - Meeting high levels of mechanical performance
- ▶ Ideal for high strength and miniature parts, wear, abrasion and fatigue exposure
- ▶ Versatile thermoplastic processing through moulding processes, milling or additive manufacturing

Find out how VICTREX PEEK polymers can drive innovation in drug delivery device components, visit [victrex.com/drugdelivery](https://victrex.com/drugdelivery)





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#### About Victrex

Victrex is an innovative world leader in high performance polymer solutions, focused on the strategic markets of automotive, aerospace, energy (including manufacturing & engineering), electronics and medical. Every day, millions of people use products and applications, which contain our materials – from smart phones, aeroplanes and cars to oil and gas operations and medical devices. With over 40 years' experience, we develop world leading solutions in PEEK and PAEK-based polymers, semi-finished and finished parts which shape future performance for our customers and our markets, and drive value for our shareholders.

Find out more at [www.victrex.com](http://www.victrex.com)

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