

# Sulzer NeXRing™

made with VICTREX™PEEK

**Random packing solution** - providing extremely large and uniform open area in every ring orientation allowing a high surface exposure to liquid and vapor while minimizing dry zones.

Combining Victrex expertise in the material and its processing with Sulzer's knowledge in mass transfer application, the NeXRing™ **provides improved hydraulic performance especially for corrosive applications at high temperatures.**



The Sulzer NeXRing™

*Image courtesy of Sulzer Chemtech*

## BENEFITS

- Outstanding corrosion resistance at high temperature
- Superior mechanical stability at high temperatures up to 250°C vs. other plastic random packings (PP, PVDF, PFA)
- Cost competitiveness vs. other corrosion resistant material
- Column size reduction due to higher hydraulic capacity vs. established earlier generation random packing types with the same separation efficiency

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**NEW POLYMER**



# VICTREX FG™ (Food Grade)

## MEETING THE MOST STRINGENT FOOD CONTACT MATERIAL REQUIREMENTS

...including safety, quality and regulatory compliance of the industry  
– to ensure that customers only taste what they are supposed to taste

### Food Grade Overview

FILLER	100 SERIES	200 SERIES	300 SERIES
	Strong & stiff enough to replace metal & stay in shape in extreme environments.	Tough & ductile enough to withstand hard knocks in demanding environments.	Resilient enough to reduce friction & wear, extending component lifetime in challenging environments.



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**NEW POLYMER**

# VICTREX CT™ (Cryogenic Temperature)



## IMPROVE YOUR SEALING VS. PCTFE IN CRYOGENIC CONDITIONS



**Higher tensile strength** coupled with lower modulus confirms more ductility across a wider range of temperatures; testing at  $-196^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  indicates better sealing capabilities which could also extend to higher temperatures in the range of  $+200^{\circ}\text{C}$ .



**Lower and constant coefficient of thermal expansion** ensures more dimensional stability and minimizes the shrinkage at low temperatures.



**Higher thermal conductivity** permits a faster reaction to temperature changes allowing the seat seal to keep interference with the steel counter-surface at all time – contributing to more consistent sealing.



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### VICTREX CT™100

offers outstanding ductility at  $-196^{\circ}\text{C}$ , higher tensile elongation and slightly lower compressive modulus.

### VICTREX CT™200

offers a lower static and dynamic coefficient of friction which helps minimizing torque and wear allowing smaller actuators and saving space and weight.

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**NEW POLYMER**



# VICTREX AM™ 200 (Additive Manufacturing)

**PAEK PERFORMANCE DESIGNED FOR FILAMENT FUSION**  
FOR EASIER PRINTING, LESS WARP, STRONGER PARTS



## LOWER PRINTING TEMPERATURES

melt temperature of 303°C versus 343°C  
allowing printing at lower processing  
temperatures



## EASIER FLOW

lower viscosity polymer allowing easier flow  
through the nozzle and superior filament  
deposition in the part



## LESS WARPAGE

due to the optimised crystallisation control,  
rheology and inter-layer adhesion



## WIDER OPERATING WINDOW

slower crystallisation rate allows to print  
crystalline and amorphous according to  
printing settings - and higher dimensional  
stability during printing



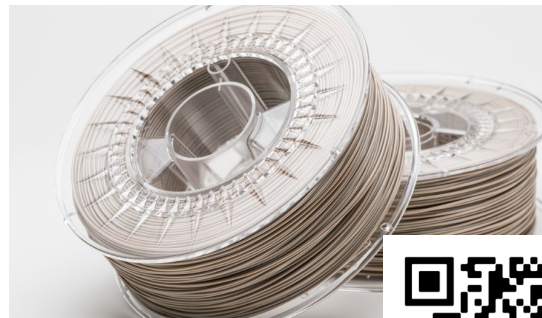
## STRONGER PARTS

higher interlayer adhesion improving tensile  
strength along the z axis



## DESIGN FLEXIBILITY

supporting economic value, rapid prototyping  
and on-demand production



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**VICTREX AM200**  
Brochure

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FLUID HANDLING | FOOD & WATER PROCESSING

# Safe, Efficient and Sustainable Changes from the Inside



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Small efficiency loss by small parts and components inside industrial equipment can add up to significant energy loss and emissions, and lead to costly downtime when they fail.

**Safety and environmental concerns over fluoropolymer** is increasing importance in making manufacturing and processing to be more sustainable.

From fluid handling to food and water contact applications, **PEEK polymer's multi-faceted material performance** can help **improve efficiency** while addressing **safety and compliance concerns**, offering peace of mind for processors and end-users.

Let us help you push the performance boundaries of your equipment.

**Let's make change.**



**VIEW  
PROPERTIES  
& BENEFITS**





# Multiple properties. Multiple benefits.

## A unique combination of VICTREX™ PEEK properties for Industrial Applications



### EXTREME TEMPERATURE RESISTANCE

Stable operation from -40°C up to 250°C\*\*



### CHEMICAL RESISTANCE

Outstanding resistance to chemical attack from a wide range of materials



### MECHANICAL STRENGTH

Wide range of product grades with excellent strength, stiffness and ductility properties



### WEIGHT REDUCTION

25% lighter than metal, bringing energy efficiency and noise reduction



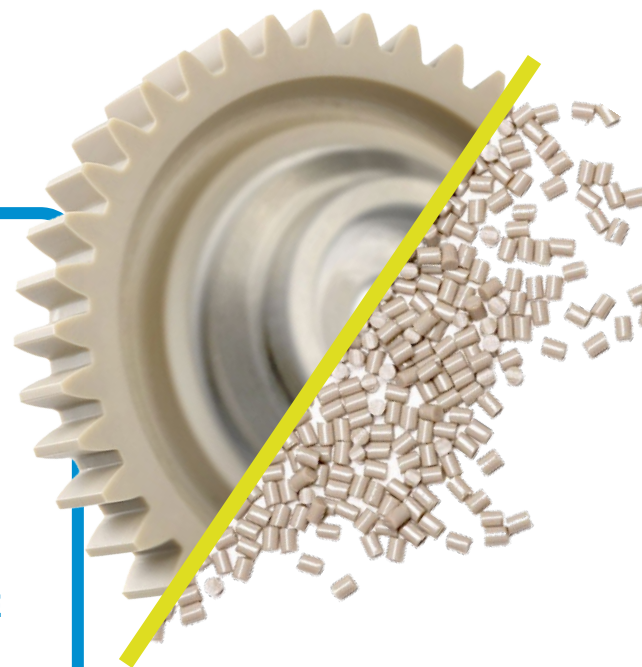
### FOOD & WATER CONTACT

VICTREX FG polymers compliant with some of the world's leading regulatory standards including FDA, EU10/2011, WRAS and KTW.



### ELECTRICAL PERFORMANCE

Proven dielectric properties (breakdown voltage, PDIV resistance, resistivity, permittivity, low loss etc.)



There's more at  
[victrex.com/Industrial](http://victrex.com/Industrial)

