
Sulzer NeXRing™ in VICTREX™ PEEK – withstands high temperature and corrosion

NeXRing™ is the latest high performance random packing developed by Sulzer. This product provides extremely large and uniform open area in every ring orientation allowing a high surface exposure to liquid and vapor while minimizing dry zones. The NeXRing™ has been tested in Sulzer Chemtech leading in-house R&D facilities, and all the results have shown improved hydraulic performance compared to earlier generation random packing types with the same separation efficiency.



VICTREX™ PEEK is a thermoplastic polymer with a unique combination of properties: high temperature resistance (250°C), chemical and corrosion resistance, wear resistance, mechanical strength and scalability via injection molding.

Sulzer mass transfer application knowledge is now combined with Victrex competence in PEEK production to develop a random packing especially designed for corrosive applications at high temperatures.



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Features and benefits

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

New column installations as well as revamps of existing random packing columns for performance, reliability or longer service time:

- Nitric acid with concentrations lower than 10%
- Caustic soda
- Sea water
- SO₂
- Acetic acid
- Production of phosphoric acid
- HCl with concentrations lower than 10%
- Halogenated organics and chlorosilanes
- and many others

Material samples for corrosion tests are available upon request.

Crystallinity analysis of PEEK is also available upon request to ensure optimum chemical and mechanical performance.

Considerations

PEEK is not resistant in the following environments:

- Nitric acid with concentrations higher than 50%
- Free halogens and free Cl₂
- Hydrofluoric acid



How can we help you?
Contact us today to find your best solution.
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