



VEREINIGTE
FÜLLKÖRPER-FABRIKEN
GMBH & CO. KG

MADE IN GERMANY

+++Tower Packings+++Inert-Balls+++Catalyst Support Materials+++Column Internals+++Droplet Separators+++

VFF-NeoPak®

High performance in plastic
to minimize costs

Please give us a call
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VFF-patent

VFF-NeoPak®

High performance in plastic to minimize costs

VFF – experience that pays off.

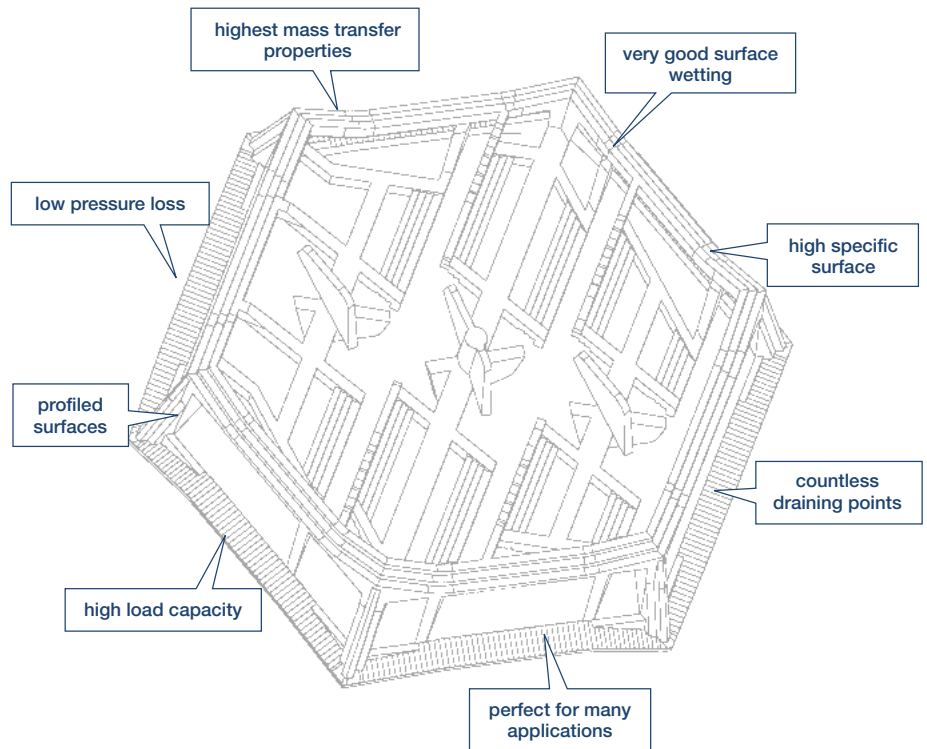
Founded in 1967, VFF has developed into the largest manufacturer of tower packings and inert balls in Europe within a very short time thanks to continuous innovation and highest quality standards. VFF is now a globally active company with more than 20 agencies.

Thanks to decades of experience in the production of tower packings and intensive market knowledge, VFF has access to an extensive know-how. Through the use of modern 3D printing and thorough testing on the VFF tower packing test columns (two test columns with 300 mm and 600 mm internal diameter), VFF has succeeded in developing the completely new **VFF-NeoPak®**, a VFF patented high-performance tower packing made of plastic.

VFF pursues the philosophy of being able to offer its customers the most modern, most efficient and best products. For this reason, VFF has developed various high-performance tower packings in different materials for different applications in recent years. The **VFF-NeoPak®** in plastic, the **VFF-Twin-Pak®** in metal and the **VFF-Power-Pak®** in ceramic are all among the latest high-performance tower packings developed for a customer base with the highest demands and all offer extremely low pressure loss with the best mass transfer. To invest in high-performance tower packings can not only increase capacity, but can also lead to significant cost savings.

In order to be able to maintain the quality advantage of VFF products in the future and to extend it even further, VFF continues to focus on „Made in Germany“ for its products. In addition, it is very important to VFF that all products are produced under fair conditions and safety for employees, as well as under the strict rules for environmental and human protection that apply in Germany. For this reason, all VFF tower packings can also be ordered from recycled plastics to conserve resources.

The **VFF-NeoPak®**, a VFF patent, is a completely newly developed high-performance tower packing in plastic with a profile that comes close to structured packings, but without sacrificing the many advantages of a tower packing. During



the development of the **VFF-NeoPak®**, particular attention was paid to low pressure loss, high capacity and high mass transfer.

The interaction of the grid-like structure of the **VFF-NeoPak®** combined with inclined, profiled and crossed guide surfaces, as well as a large number of drip points – more than a hundred thousand per m³ – ensures that this not only results in a high mass transfer rate, but also leads to a high mechanical robustness and wettability. For the customer, this means that the separation tasks of the thermal process technology can take place due to low energy consumption and space requirements and thus costs can be significantly reduced.

The **VFF-NeoPak®** can be used for all types of thermal separation tasks such as absorption (physical, chemical, reactive), desorption, distillation, extraction, etc., i.e. for the countless applications for the treatment of gases and liquids if the operating conditions permit plastic (PP, PE, PVDF, ECTFE, etc.) as the material of construction. Stability and resistance can be increased by glass fiber reinforcement. This makes the **VFF-NeoPak®** the ideal tower packing for countless applications.

Fields of application for the VFF-NeoPak®

Examples of mass transfer

- Halogenated acid gases
- Halogens
- Nitrogen compounds
- Sulphur compounds
- Organic compounds
(alcohols, aldehydes, esters, etc.)
- Inorganic compounds
- and many others

As there is a practically limitless variety of substances, only a few groups of substances are listed here. VFF is pleased to provide profound assistance in individual cases.

Examples of industries

- Plant construction
- Biological sewage treatment plants
- Chemical / pharmaceutical industry
- Fertilizer industry
- Iron and steel industry
- Ore processing / mining
- Galvanic industry
- Semiconductor industry
- Wood industry
- Power stations
- Cooling towers
- Paper industry
- Soda industry
- Environmental technology
- Waterworks / drinking water plants
- and many others

In general, this can involve the purification of air or other gases, waste gas or process gas treatment, the purification or treatment of water or other liquids, the concentration or reaction of substances and much more.



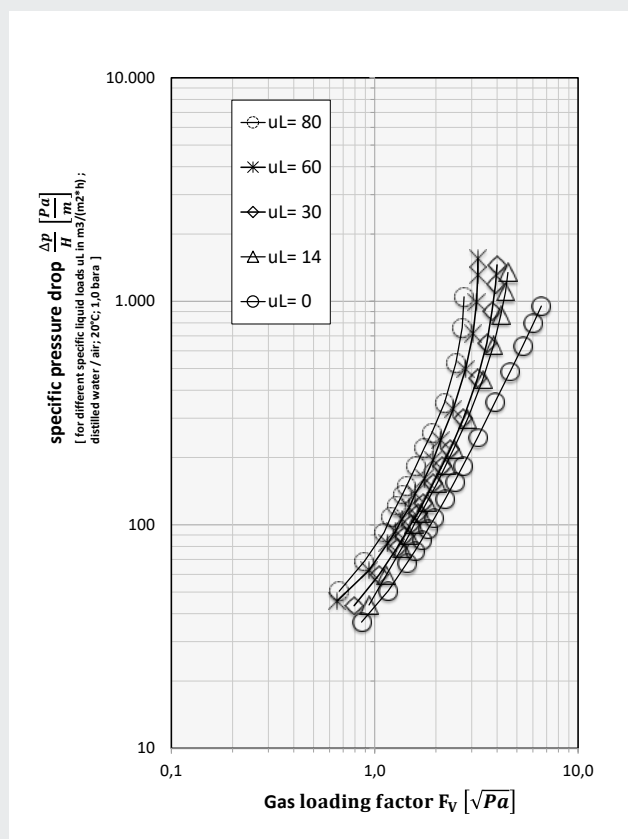
VFF-NeoPak® – Technical data

Physical properties

Description	Spec. surface [m ² /m ³]	Spec. weight [kg/m ³ (PP)]	Free volume [%]
VFF-NeoPak® No.1	185	55	94
VFF-NeoPak® No.2	100	42	95

Pressure Drop

VFF-NeoPak® No.1



VFF-NeoPak® No.2

