



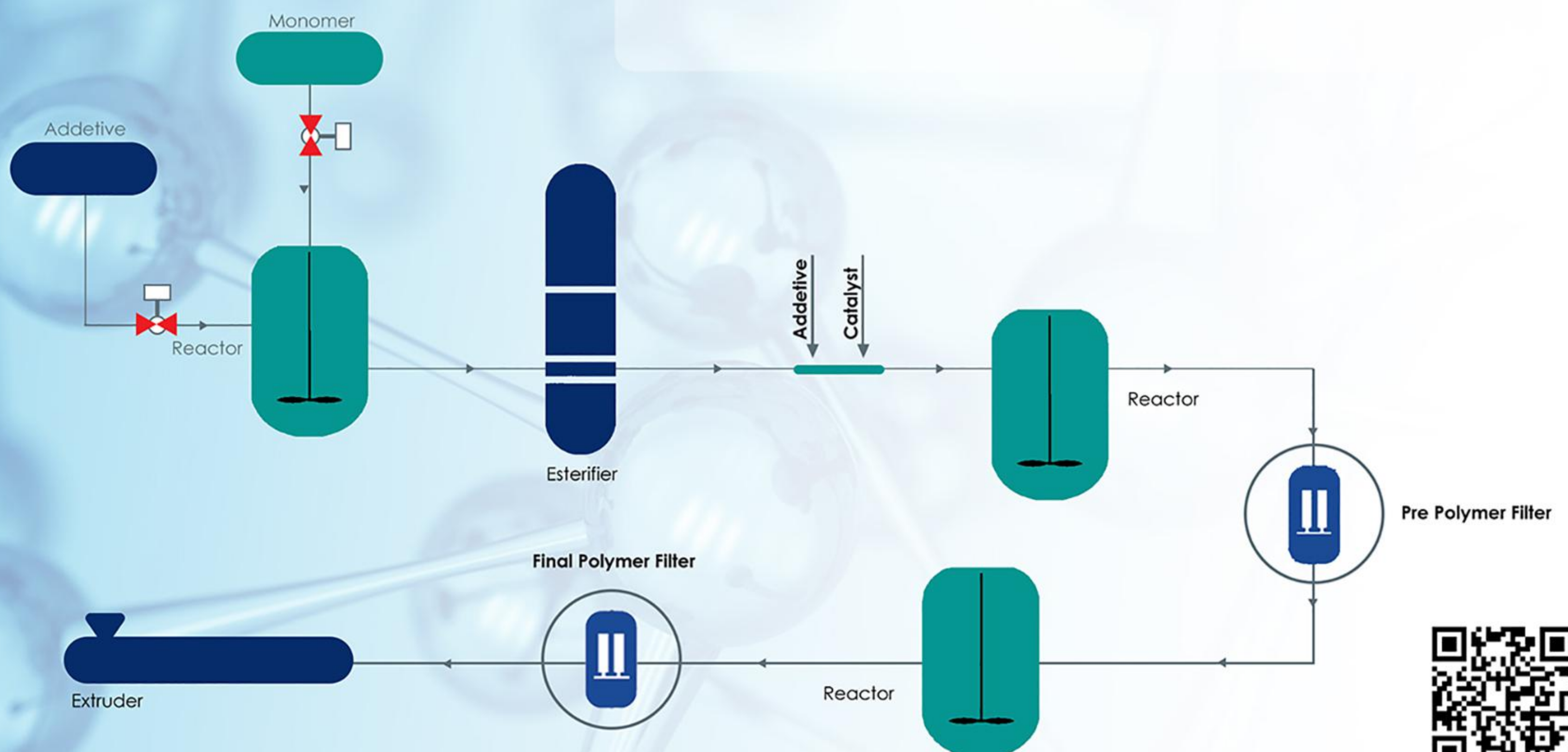
پوروشاٹ
POROSHAT
f i l t e r

Polymer Filtration

Polymer Filtration

Application Focus

Polymerization is the first basic step in plastics production. Depending on the monomers, it can be carried out in bulk, in a solution, or in an emulsion. If monomer solutions are introduced into the reactor, they are first filtered to separate impurities. Filtration is also used after polymerization to recover monomer residues from polymer solutions/ suspensions and to return them to the polymerization reactor. After polymerization, these materials are either directly granulated for further processing elsewhere, or they are directly melted and processed by extrusion or injection molding. Our screen changers and melt filter systems are used in this stage.



CHALLENGES

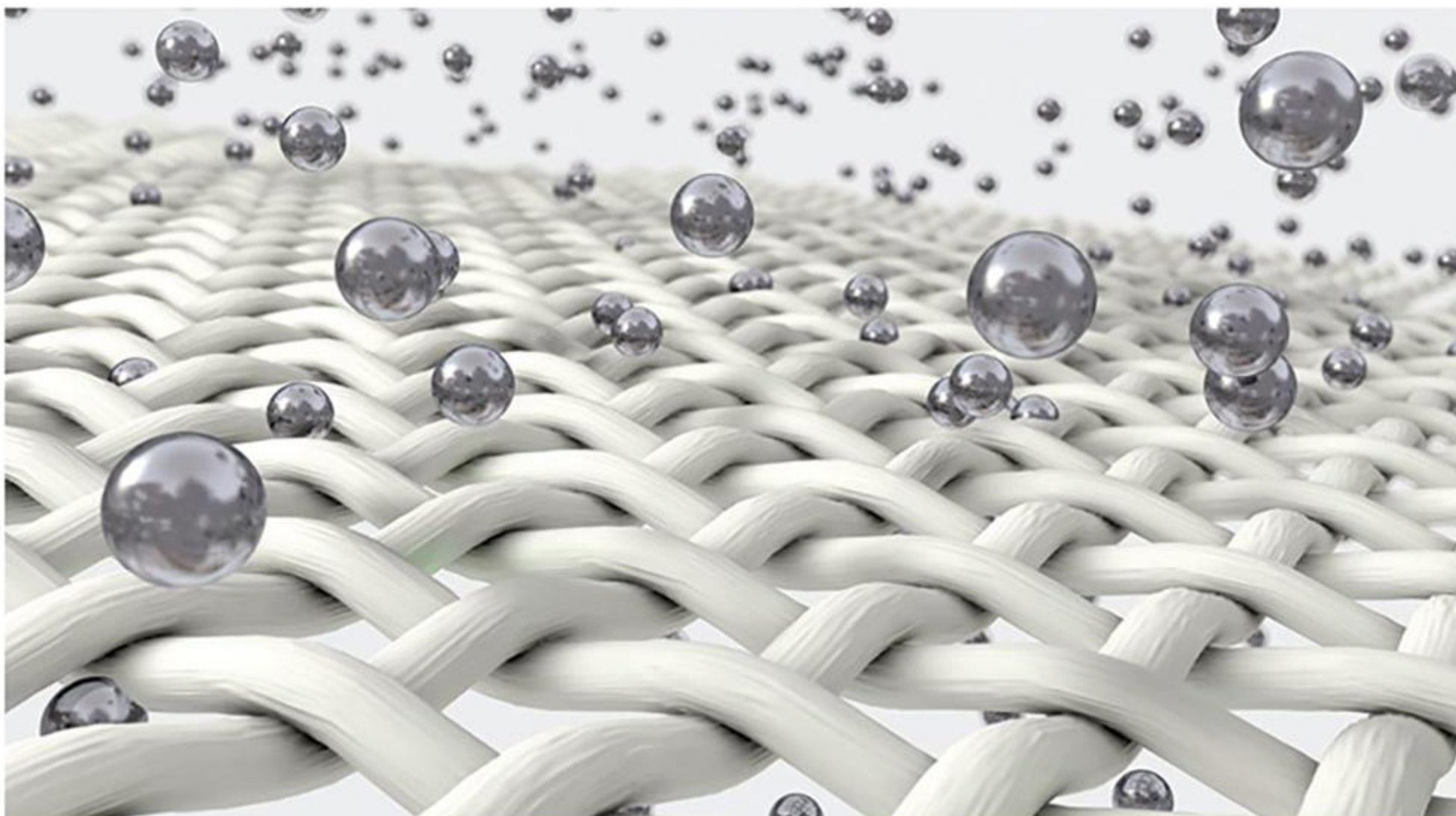
- Particles can therefore be released again and again through the abrasion or wear of mechanical line components.
- Mixture of monomers and oligomers are often activated by interactions with solid particles.



SOLUTION



Polymer candle filters play a pivotal role in the polymer manufacturing process. They serve as the front-line guardians against impurities. In an industry where precision and consistency are very much important, these filters are the guarantors of product quality consistently achieve the highest standards of polymer purity and quality.



WHAT WE DO

We offer the wide range of candle filters used in the polymer industry. Research and Development facilities to support many forms of customer request is our distinction.

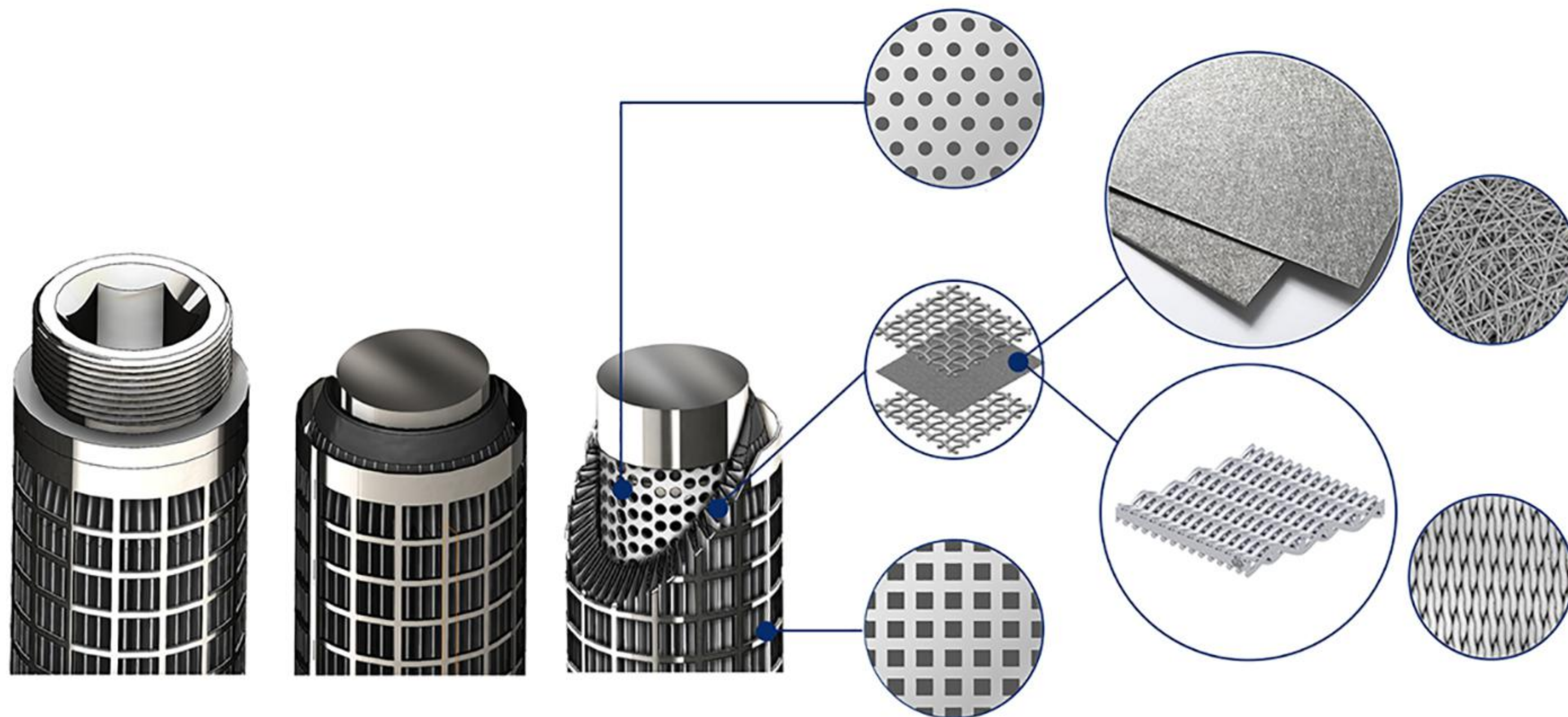


Candle Filter

Polymer candle filters are available in specifications from 3 to 100 microns, and they are typically equipped with an external shield of perforated plates designed to protect the medium and promote counterflow for effective cleaning.

Technical Details

- Media Type: Metal Fiber, Woven Wire Mesh
- Metallic Material: S.S304, S.S304L, S.S316 and S.S316L.
- Micron rating: in various micron size depending on media type.
- Working temperature: It can withstand continuous high-temperature environments up to 330°C.
- Working pressure: Maintain stable filtration performance at a working pressure up to 300 bar.



Features

- Uniform flow distribution
- Improved melt quality
- Maximum filter life
- Ease of element cleaning

Applications



Fiber Production



Polymerization



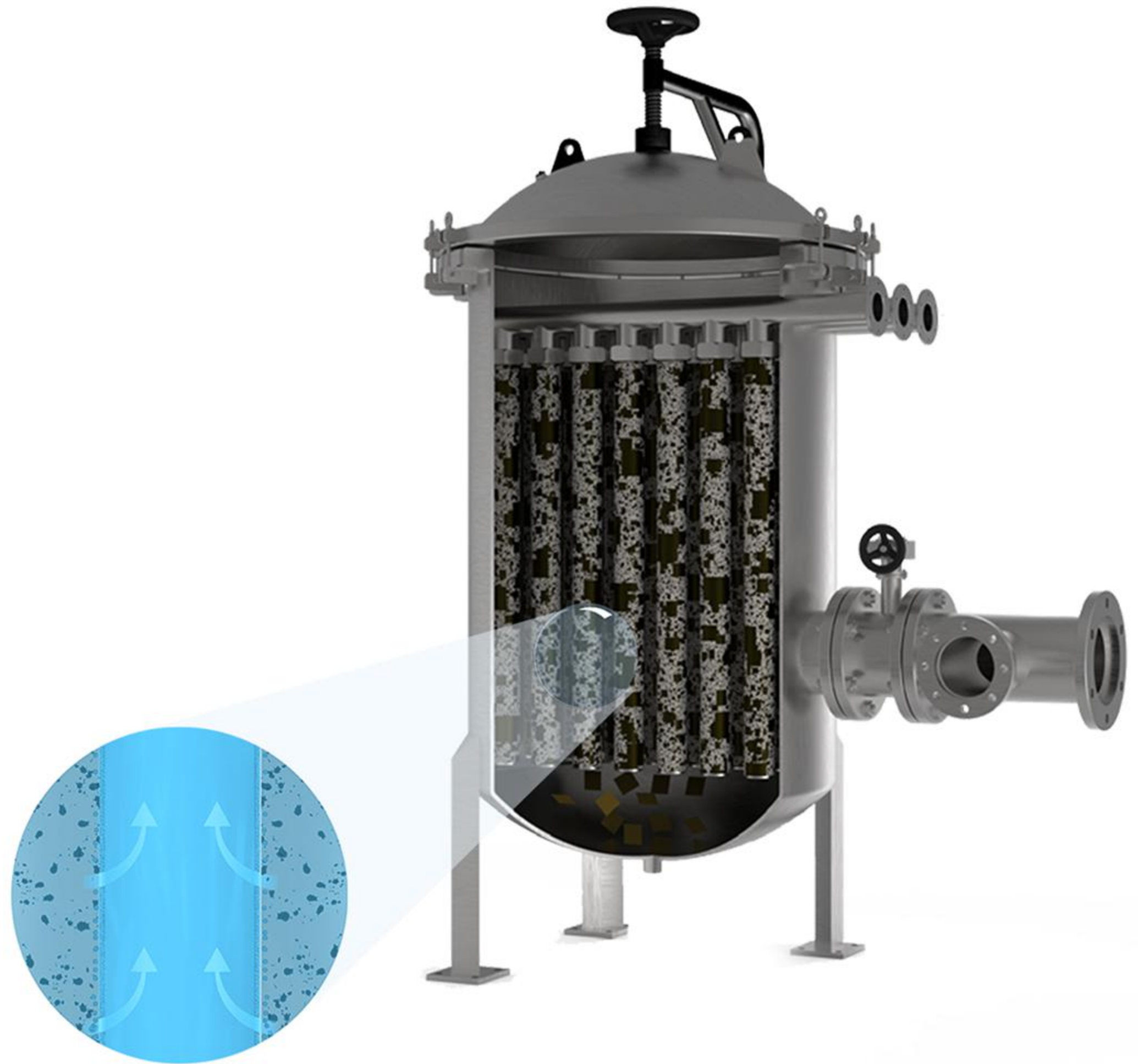
Film Production



Compounding

Working Principle

Filter candles are fixed in a polymer melt filter with a tube sheet, which in turn holds all fixed filter candles together to form a filter bundle and is mounted as a whole in the filter housing. First, the polymer melt enters into the filter and flows from outside to inside. Impurities are trapped on the filter surface and clean melt flows from the filter inside to the clean melt pipeline.



Candle filters are specialized filtration elements which are designed with highly porous and strength media to remove impurities and contaminants from polymer melts, thus ensuring the production of high-quality polymer products.





Catalog



Contact

www.poroshatfilter.com
sales@poroshatfilter.com

Tel: 031-32355264-6
Fax: 021-45812645

Office: Building NO. 165 - Motahari st. - Isfahan