

# Overview of the Main Filter Types at Piab



Filter Type	Textile filter	Pleated rod/ antistatic filter	Pleated rod/white filter	Pleated filter stainless steel	Pleated filter fiber/ cellulose
<b>Code in configurator</b>	TX1, TX2, TX4, TX6	PR1, PR2, PR4, PR6	PR0, PR1, PR2, PR4, PR6	SS0, SS2, SS4, SS6	P0, P2, P4, P6
<b>How to select?</b>	The cost-effective, flexible solution - The food industry champion. Features a high level of permeability and welded seams to assure high quality and durability.	Durable and agile recommended for metal powders, and even handles toner paint. Optimal to use with bridging/caking materials	Snow-white filters for the perfectionist - when it is important that white conveyed materials only get in touch with immaculate, white equipment.	The sterile alternative - pharmaceuticals and chemical industry champion thanks to its increased chemical resistance. The go-to choice when sterilization is a must e.g. between batches as it can be sterilized for 30 minutes at 123 °C/253 °F.****	The biggest filter area to handle extremely fine powders.  Rigid and heavy-duty, works best with materials that are hard to be filtered out with other filter types.
<b>Material</b>	Polyester	Polyethylene	Polyethylene	Stainless steel (316Ti, 316L)	Polyester with PTFE membran
<b>Grade of filtration (minimal particle size)</b>	5 µm	0.5 µm	0.5 µm	5 µm	0.5 µm
<b>Compatibility with vacuum conveyors</b>	piFLOW®p, piFLOW®fc, piFLOW®i, piFLOW®f, piFLOW®t	piFLOW®p, piFLOW®f, piFLOW®t	piFLOW®p, piFLOW®fc, piFLOW®i, piFLOW®f, piFLOW®t	piFLOW®p, piFLOW®fc	All piFLOW® conveyors
<b>Industries of application</b>	Food, Chemical, Pharma	Food, Chemical, Pharma, Additive Manufacturing	Pharma, Food, Chemical, Additive Manufacturing	Pharma, Food, Chemical	Suitable for all industries with small particle sizes, including, Food, Chemical, Pharma, Additive Manufacturing.
<b>Material particle types</b>	Granules*, tablets, powders**, fine powders***, bridging materials	Powders, fine powders, ultrafine powders, bridging materials	Powders, fine powders, ultrafine powders, bridging materials	Granules, tablets, powders, fine powders, bridging materials	Extremely fine and free-flowing powders
<b>Price range</b>	Cost-effective	Mid-range	Mid-range	Premium	Mid-range
<b>Can it be used with hygroscopic or caking/bridging materials?</b>	Yes	Yes	Yes	Yes	No
<b>ATEX (antistatic properties)</b>	Yes	Yes	No	Yes	Yes
<b>Filter area</b>	600, 900, 1400, or 2340 cm <sup>2</sup> / 0.65, 0.97, 1.51, 2.52 ft <sup>2</sup>	800, 1400, 2500, or 4500 cm <sup>2</sup> / 0.86, 1.51, 2.69, 4.84 ft <sup>2</sup>	310, 800, 1400, 2500, or 4500 cm <sup>2</sup> / 0.33, 0.86, 1.51, 2.69, 4.84 ft <sup>2</sup>	800, 1500, 2500, 5000 cm <sup>2</sup> / 0.86, 1.61, 2.69, 5.38 ft <sup>2</sup>	400, 800, 3000, 5000, or 10000 cm <sup>2</sup> / 0.43, 0.86, 3.23, 5.38, 10.76 ft <sup>2</sup>

\*Granules are powders with particle sizes over 25µm.

\*\*Powders have a particle size of over 10µm

\*\*\* Fine powders have a particle size of over 5µm

\*\*\*\* For details, please check the cleaning instructions in the manual on piab.com.