



Filter Rolls Technical Data

No compromise on quality

Filtermist will help you select the best filter rolls to meet your exact requirements.

Either on-site or by telephone we can assess your needs and provide expert recommendations you can totally rely on. Our commitment to you is to provide unrivalled customer service and competitive prices. With next day delivery, we will provide you with the filter rolls you need, without compromise.

Filter rolls & media for gravity, vacuum, pressure and hydrostatic systems

- Grinding, honing, lapping and cutting.
- Industrial waste water.
- Phosphating and galvanising fluids.
- Hot & cold metal rolling.
- Industrial washing.

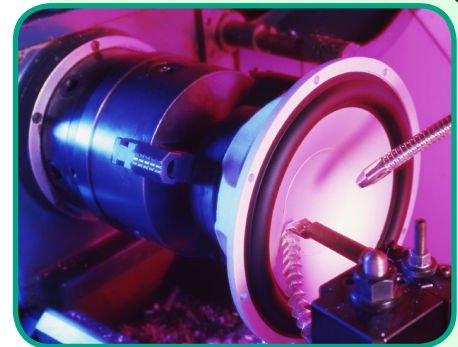
Filter Rolls are extensively used for machine tool coolants and cutting & lubricating fluids found throughout the metalworking industry. The filter media generally used is a non-toxic viscose based medium. It is fitted to Flat bed systems which are carried on an endless belt. When in operation the paper filters the contaminant, building up an efficient filter cake. This eventually causes the coolant to rise up and activate a float that indexes on a fresh piece of filter media. Typical filtration levels are 15 - 55 micron.

With ever increasing levels of cleanliness and enhanced machining techniques, there is a need for superior filter media. Vacuum and pressure filtration systems utilise Polyester, Polypropylene and Polyester Needlefelt media to help accomplish higher levels of filtration. Typical filtration levels are 10 - 25 micron

Vacuum filters draw contaminated coolant through the fine fibre medium and return cleaned fluid under pressure. The media is automatically replaced and the system supplies an uninterrupted flow of clean coolant to the process. Filter rolls for gravity, vacuum, pressure and Hydrostatic systems

Typical clarifying applications:

- Grinding, honing, lapping and cutting.
- Removes chips, grinding swarf and metal fines to maintain clean coolant and prolonged life tool.
- Industrial waste water.
- Filters chips and fine particles from sanding, grinding or polishing applications.
- Phosphating and galvanising fluids.
- Ensures systems remain clean and desludging is maximised. Eliminates manual labour.
- Hot & cold metal rolling.
- Provides consistently high levels of cleanliness in cooling lubricants, typically down to 5 micron.
- Industrial washing.
- Removal of bulk solids from component wash processes.



Filter Rolls and Filters
Quality guaranteed at a competitive price





Filter Rolls Application Guide

Operation Vs Particle Size (microns μm)

Operation	Degree of Particles	Micron Range	Mean Particle Size
Lapping	Small Amount	0 - 5 μm	2 μm
Honing	Average Amount	0 - 8 μm	3 μm
Fine Grinding	Above Average Amount	0 - 40 μm	15 μm
Normal Grinding	Heavy Amount	0 - 100 μm	25 - 30 μm
Milling, Turning	Increased Volume	20 - 100 μm	few < 10 μm

Filter Rolls Technical Data

Gravity / Pressure Filter Rolls

Title	Filter Type	Fluid Type	Particle Size	Filtration Level	Weight	Thickness	Material	Tensile Strength
Coarse Viscose	Gravity, Pressure	Soluble, Synthetic, Oil, Water	Coarse	55 micron	20g/sqm	0.15mm	100% Viscose (with binder)	MD 32 N/5cm CD 10 N/5cm
Semi Coarse Viscose	Gravity, Pressure	Soluble, Synthetic, Oil, Water	Coarse/Medium	45 micron	25g/sqm	0.17mm	100% Viscose (with binder)	MD 48 N/5cm CD 12 N/5cm
Medium Viscose	Gravity, Pressure	Soluble, Synthetic, Oil, Water	Medium	35 micron	35g/sqm	0.25mm	100% Viscose (with binder)	MD 60 N/5cm CD 18 N/5cm
Fine Viscose	Gravity, Pressure	Soluble, Synthetic, Oil, Water	Fine	25 micron	50g/sqm	0.28mm	100% Viscose (with binder)	MD 70 N/5cm CD 24 N/5cm
Extra Fine Viscose	Gravity, Pressure	Soluble, Synthetic, Oil, Water	Extra Fine	15 micron	65g/sqm	0.34mm	100% Viscose (with binder)	MD 115 N/5cm CD 40 N/5cm
N20 SBPP	Gravity, Pressure	Soluble, Semi Synthetic, Water	Coarse	50 micron	20g/sqm	0.19mm	100% Polypropylene	MD 40 N/5cm CD 25 N/5cm
N30 SBPP	Gravity, Pressure	Soluble, Semi Synthetic, Water	Coarse/Medium	45 micron	30g/sqm	0.28mm	100% Polypropylene	MD 63 N/5cm CD 37 N/5cm
N50 SBPP	Gravity, Pressure	Soluble, Semi Synthetic, Water	Fine	35 micron	50g/sqm	0.43mm	100% Polypropylene	MD 115 N/5cm CD 63 N/5cm
N70 SBPP	Gravity, Pressure	Soluble, Semi Synthetic, Water	Extra Fine	30 micron	70g/sqm	0.55mm	100% Polypropylene	MD 155 N/5cm CD 105 N/5cm
N100 SBPP	Gravity, Pressure	Soluble, Semi Synthetic	Extra Fine	15 micron	100g/sqm	0.60mm	100% Polypropylene	MD 200 N/5cm CD 100 N/5cm

Vacuum / Pressure Filter Rolls

Title	Filter Type	Fluid Type	Particle Size	Filtration Level	Weight	Thickness	Material	Tensile Strength
2006 Polyester	Vacuum	Soluble, Synthetic, Oil, Water	Coarse	65 micron	21g/sqm	0.20mm	100% Polyester	MD 36 N/5cm CD 18 N/5cm
2014 Polyester	Vacuum	Soluble, Synthetic, Oil, Water	Medium	45 micron	35g/sqm	0.28mm	100% Polyester	MD 59 N/5cm CD 39 N/5cm
2016 Polyester	Vacuum	Soluble, Synthetic, Oil, Water	Medium	35 micron	45g/sqm	0.30mm	100% Polyester	MD 91 N/5cm CD 60 N/5cm
2024 Polyester	Vacuum	Soluble, Synthetic, Oil, Water	Fine	20 micron	71g/sqm	0.32mm	100% Polyester	MD 169 N/5cm CD 115 N/5cm
2033 Polyester	Vacuum	Soluble, Synthetic, Oil, Water	Extra Fine	15 micron	99g/sqm	0.43mm	100% Polyester	MD 266 N/5cm CD 188 N/5cm
HU100 PES Needlefelt	Vacuum	Soluble, Emulsion, Semi Synthetic	Extra Fine	15 micron	100g/sqm	0.80mm	100% Polyester Needlefelt	MD 165 N/5cm CD 200 N/5cm
NI150 PES Needlefelt	Vacuum	Soluble, Emulsion, Semi Synthetic	Extra Fine	10 micron	150g/sqm	1.00mm	100% Polyester Needlefelt	MD 235 N/5cm CD 330 N/5cm

