

# Filter bags

**FOR A WIDE NUMBER OF FILTRATION APPLICATIONS KRONE FILTER BAGS ARE A SIMPLE, EASY TO USE AND ECONOMICAL CHOICE.**

**KRONE NEEDED FELT BAGS ARE MAINLY EMPLOYED WHERE DEPTH FILTRATION IS REQUIRED.**

The three dimensional media provides good depth filtration characteristics and high solids loading versus two dimensional media.

## Features

- Bags are quick and easy to change-out. Insideout flow keeps contaminants enclosed in the bag.
- Bags are silicone free (does not apply to 0.5 µm AP bag) and are produced in a silicone free environment.
- The amaFlow AP 0.5 bag has an improved selectivity because of a special coating layer on the felt.
- Materials used comply with FDA requirements for food and beverage contact.
- Filter bags and bag filter housings are usually employed as closed systems, but open or end-of-pipe applications are attractive alternatives.
- The standard amaFlow filter bags have sizes to fit into amafiltergroup baskets and housings, but will also fit into most other housings. Special sizes are available on request.
- Cost effective at lower microns versus two dimensional media (mesh).

## Types

Krone needed felt bags are available as standard in polyester or polypropylene with many different micron ratings. Other materials such as nylon, viscose, PTFE, PPS and Nomex® are available on request.

Krone filter bags seal with either a Snap-Collar seal comprising of either carbon steel, stainless steel or polypropylene or with a plastic seal flange. For open systems (uses outside a filter housing) the filter bags can also be supplied without any ring (thus no integrated means of fastening) or with a pull cord only.

**KRONE FILTER SOLUTIONS GMBH**  
Industriestr. 19  
28876 Oyten / Germany  
Tel: +49 (0)4207 98 769-0  
Fax: +49 (0)4207 98 769-27

**Krone Filter**  
SOLUTIONS IN FILTRATION

filter@krone-filter.com  
www.krone-filter.com

**QUALITY  
MANAGEMENT**  
Certificate

Voluntary participation in regular  
monitoring according to ISO 9001:2000



## Surface treatment

Polypropylene is thermally treated on the outside as standard, for polyester this is available as an option. This will further minimise any possible release of fibres from the needed felt filter media. During the thermal treating process the softened fibres are bonded together on the downstream side of the bag. Also available as an option are anti-migration covers on the felt, made either from non-woven nylon fleece.



## Description

Krone needed felt filter bags are sewn as standard at the ring, have a welded longitudinal seam and are sewn at the bottom seam. Other configurations are possible depending on material. The polyester and polypropylene filter bags are equipped with handles as standard:

- S, SS, PO: Finger grips inside bag (slits in felt)
- P: 2 handles in ring (size 3, 4, 30, 65: 1 handle)

An additional handle strap is optional, from the same material as needed felt.

## Sealing systems

In order for bag filters to function properly, especially with smaller pore sizes, a good seal between bag and support basket is of great importance. For this reason Krone Filter has two options:

- **Snap-Collar:** a felt-covered metal or plastic ring which clicks neatly into the upper collar of the support basket. The felt serves as the sealing.
- **Plastic-Seal:** the plastic flange (with handles) which tightly fits into our standard baskets.

## Multi layered and pleated felt bags

Bags with multiple layers or pleats offer advantages when removing particles which are difficult to filter and have a longer service life. For information on amaFlow multi layered or pleated felt bags please see Data Sheets 6016 and 6017.

# Temperature and chemical resistance

Filter bag grade AP	AP polyester	SP polyprop.	N	TF PTFE	RT PPS	X viscose
Max. temperature °C	150*	100	100	250	170	100
<b>Resistance to:</b>						
inorganic acids	++	++	-	+++	+++	-
organic acids	++	+++	+	+++	+++	++
alkalines	+	++	+++	+++	+++	+
oxidising agents	++	+	-	+++	-	+
solvents	+++	++	+++	+++	+++	++
animal oils	+++	+++	+++	+++	+++	+++
vegetable oils	+++	+++	+++	+++	+++	+++
micro-organisms	+++	+++	+++	+++	+++	-

\* 100 °C for polypropylene ring / flange

+++ excellent  
 ++ good  
 + fair  
 - bad

## Ordering code

	amaFlow	AP	10	P	2	S	
<b>Material</b>							<b>Other options</b> 1PK: single packed in plastic bag, together in box
AP:		polyester					
SP:		polypropylene					
N:		nylon					
TF:		PTFE					
RT:		PPS					
X:		viscose					
<b>Micron rating [µm]</b>							<b>Additional handle</b> HS: handle strap, from same material as needed felt (standard on size 30 and 65 for S, SS and PO ring)
AP:		0.5, 0.8, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200					
SP:		0.8, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200					
N:		1, 5, 10, 25, 50, 100					
TF:		1, 5, 10, 15					
RT:		1, 2.5, 5, 10, 20, 100					
X:		5, 10, 25, 50, 100					
<b>Finish</b>							<b>Welded / sewn:</b> -: Standard with ring sewn, longitudinal seam welded and bottom seam sewn. For AP 0.5, all N, TF, RT, X and for all sizes 3, 4, 30 and 65: standard all sewn.
P:		plain (not for SP)					
P/S:		standard finish for SP SP (with improved outer surface: thermally treated)					
S:		outside thermally treated (AP)					Options for AP × 0.8 and SP in size 1 and 2: AS: all sewn WE: all welded (P flange only) BW: ring sewn, longitudinal and bottom seam welded (S, SS, PO)
B:		both sides thermally treated*					
N:		nylon mesh cover*					
C:		nylon fleece cover*					
		* available for AP (except AP 0.5) and SP					
<b>Bag dimensions</b>							<b>Ring / seal</b> S: carbon steel ring (Snap-Collar) SS: stainless steel AISI 304 ring AISI 304 (Snap-Collar) PO: polypropylene ring (Snap-Collar, AP and SP only) P: polypropylene flange (size 1, 2 ; for AP and SP only) polyethylene flange (size 3, 4, 30, 65; for AP and SP only) T: PTFE (Snap-Collar, TF only) N: no ring DS: draw string
1		size 1 (Ø 178 x 432 mm)					
2		size 2 (Ø 178 x 787 mm)					
3		size 3 (Ø 104 x 203 mm)					
4		size 4 (Ø 104 x 356 mm)					
30		size 30 (Ø 106 x 254 mm)					
65		size 65 (Ø 106 x 559 mm)					
		Other dimensions are available on request					