

Filter bag amaFlow pleated needled felt for extra service life

1. Introduction

For a wide number of filtration applications amaFlow filter bags are a simple, easy to use and economical choice.

The amaFlow pleated felt bags offer increased filtration area and dirt holding capacity resulting in extra service life compared to standard filter bags. The graded density design and the thermally set pleat design are the key features of these bags which fit into standard support baskets. These bags are particularly well suited for applications with low viscosity liquids and solid particles.



2. Features

- These filter bags are available in polypropylene with vertical pleats with 1.7 m² filtration area (size 2, approximately 4x that of a standard filter bag).
- Graded density design: Two felt types are co-pleated, the first pleated layer is coarser for effective solids removal and to improve dirt holding capacity. The second pleated layer has the same micron rating as the outside felt for improved efficiency, avoiding premature blinding.
- Thermally set pleat design results in a rigid pleat profile, preventing the pleats from collapsing and leading to higher surface area utilisation.
- Longer service life results in lower cost for bag changes and disposal.
- Bags are quick and easy to change-out. Inside-out flow keeps contaminants enclosed in the bag.
- Bags are silicone free and are produced in a silicone free environment.
- Materials used conform to the European Directive 2002/72/EC for plastic materials and articles intended to come into contact with food stuffs (food & beverage).
- No equipment modification is necessary, as pleated bags fit into standard baskets. The standard filter bags are sized to fit into our baskets and housings, but will also fit into most other housings.

4. 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 we offer two options:

- The 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.
- The plastic seal flange (with handles) which tightly fits into our standard baskets.

3. Description

The amaFlow pleated needled felt filter bags have a welded longitudinal seam, all other seams are sewn.

- S, SS, PO : Handle strap (same material as felt)
- P: 2 handles in flange

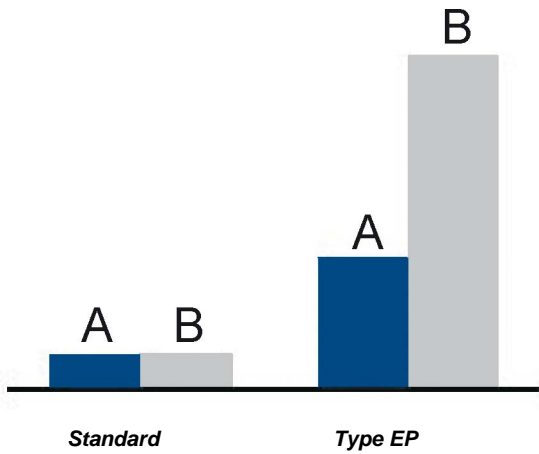
Types

The amaFlow pleated needled felt filter bags are available as standard in polypropylene with many different micron ratings. The amaFlow filter bags seal with either a Snap-Collar seal comprising of either carbon steel, stainless steel or polypropylene or with a plastic seal flange in polypropylene.

5. Surface treatment

Polypropylene is thermally treated on the outside as standard. This will further minimise any possible release of fibres from the needled felt filter media. During the thermal treating process the softened fibres are bonded together on the downstream side of the bags.

6. Filtration area versus service life



A = Filtration area
B = Service life

7. Temperature and chemical resistance

Filter bag grade	SP-EP polypropylene	
Max. temperature [°C]	100	
resistance to:		+++ = excellent ++ = good + = fair - = not recommended
inorganic acids	++	
organic acids	+++	
alkalines	++	
oxidising agents	+	
solvents	++	
vegetable/animal oils	+++	
micro-organisms	+++	

8. Order code

Example

	<i>amaFlow SP</i>	<i>EP</i>	<i>5</i>	<i>P/S</i>	<i>2</i>	<i>SS</i>	<i>HS</i>
Material							
SP = polypropylene							
Bag Configuration							
EP = enhanced pleat (4x area)							
Micron rating [μm]							
1, 5, 10, 25, 50, 75, 100, 150, 200							
Finish							
P/S = standard finish for SP (with improved outer surface: thermally treated)							
Bag dimensions							
1 = size 1 (\varnothing 178 x 432 mm)							
2 = size 2 (\varnothing 178 x 787 mm)							
Ring/seal							
S = carbon steel ring (Snap-Collar)							
SS = stainless steel AISI 304 ring (Snap-Collar)							
PO = polypropylene ring (Snap-Collar)							
P = polypropylene flange							
Handle							
HS = handle strap, from same material as needed felt (standard on S, SS, PO)							

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