

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 giving both significantly increased filtration area and depth.
- 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. The plastic seal flange (with handles) fits tightly into our standard baskets.

3. Description

The amaFlow pleated needled felt filter bags have a welded longitudinal seam, all other seams are sewn with two handles in the flange.

Types

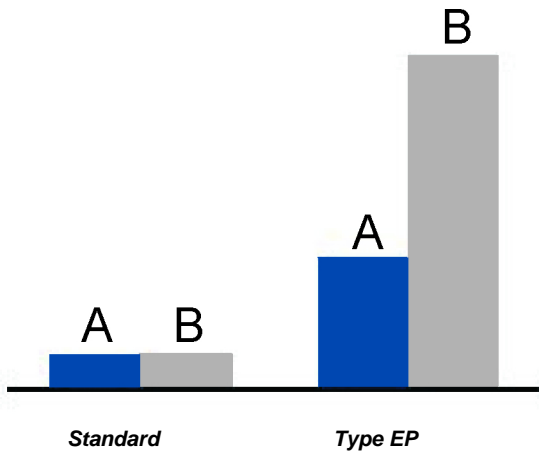
The amaFlow pleated needled felt filter bags are available as standard in polypropylene with many different micron ratings.

The amaFlow filter bags seal with 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]	95	
resistance to:		+++ = excellent ++ = good + = fair - = not recommended
inorganic acids	++	
organic acids	+++	
alkalines	++	
oxidising agents	+	
solvents	++	
vegetable/animal oils	+++	
micro-organisms	+++	

8. Order code

Example

amaFlow SP EP 5 P/S 2 P

Material

SP = polypropylene

Bag Configuration

EP = enhanced pleat

Micron rating [μm]

0.8, 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

P = polypropylene flange

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03/2017