



## **synthetic media Synfasan® a filter media with a multi-purpose application field**

### **description**

**Synfasan®** U15 - U50 is a on the clean-air side compressed, with polyester tangle fleeces media (separation efficiency G2 - G4 according to DIN EN 779).

**Synfasan®** is used as coarse dust media in the sector of preliminary filtration, as media placed in flat position or as Z-line media inside a plastic alternate frame. On request, these tangle fleeces are equipped with synthetic fibre grid fabric added on the clean-air side. For avoidance of bonding agent and for protection of the environment it is also available as heat-hardened media.

**Synfasan®** C2 - C5G are synthetic fibre fleeces with different levels of compression on the clean-air side for application fields up to filter class F5 (DIN EN 779). C3 standard type is additionally equipped with a protective fleece on the clean-air side. C5 and C5G moreover have an adhesive added for better dust adhesion. In addition, C5G is given more stability by means of a grid fabric and is mainly used as ceiling filter in paint shops.

### **characteristics**

- filter classes G3 – F5
- tested according to DIN EN 779
- stability at 100% relative humidity
- max. operating temperature 100 °C
- filter media fully incinerable

### **fields of application**

- turbines
- compressors
- air handling units
- processing air, i.e. chemical and pharmaceutical industry
- air requirement for process manufacturing, i.e. food industry
- exhaust air and circulating air inside production halls
- paint shops (ceiling filters for air intake)



### **possible installations**

- planfilter, filters for ceiling or bottom installation
- planfilter in EMW exchangeable plastic frame
- planfilter in combination systems
- Z-Line filter
- pocket filter ( coarse dust )

### **dimensions**

- for standard rolls:
  - 40000 x 2000 mm
  - 20000 x 2000 mm
- various pre-cut parts on request



## synthetic media Synfasan®

### technical data

#### filter data

test data of SYNFASAN® coarse dust filter according to DIN EN 779\*:

SYNFASAN® type	thickness [mm]	v [m/s]	dp initial [Pa]	dp final* [Pa]	filter class DIN EN 779	dust holding capacity ** [g]
<b>U15</b>	10	1,5	27	250	G3	330
<b>U25T</b>	15	1,5	30	250	G3	400
<b>U29B</b>	20	1,5	50	250	G4	460
<b>U35</b>	20	1,5	50	250	G4	460
<b>U50</b>	20	1,5	100	250	G4	450

test data of THERMOBOND according to DIN EN 779\*:

THERMOBOND	thickness [mm]	v [m/s]	dp initial [Pa]	dp final* [Pa]	filter class DIN EN 779	dust holding capacity ** [g]
<b>Z-Line 22 pleats</b>	4	1	55	250	G4	200

test data of SYNFASAN® fine filter according to DIN EN 779\*:

SYNFASAN® type	thickness [mm]	v [m/s]	dp initial [Pa]	dp final* [Pa]	filter class DIN EN 779	dust holding capacity ** [g]
<b>C2</b>	10	0,25	15	450	F5	350
<b>C3</b>	16	0,25	22	450	F5	400
<b>C5G</b>	20	0,25	35	450	F5	350

\* : The given measured values only give an indication, as the operating data depends on condition at location, i.e. at different dust composition data may change respectively.

\*\* : Dust holding capacity was measured at recommended final pressure. Depending on the application and installation given, higher or lower final pressures can be driven, whereas dust holding capacity may change correspondingly.