Reliable, effective, robust
G 35 Compact pocket filters

viledon®

Filter Type	Filter class	Nominal volume flow rate [m³/h]	Test standard
G 35 S	G 3	3,400	EN 779
G 35 SL	G 3	4,250	EN 779
G 35 SE	G 3	4,250	EN 779
G 35 SEL	G 3	4,250	EN 779

VDI 6022

F1

The application

G 35 S, G 35 SL, G 35 SE and G 35 SEL are used for supply, exhaust and recirculating air filtration in all kinds of ventilation systems, such as:

- in industrial processes (metal processing, paper production, food and beverages, etc.)
- for exhaust and recirculating air filtration in paint shops
- for ventilating machine rooms and production areas
- in general air-conditioning applications
- as prefilters for turbomachinery

Their characteristics and benefits

- As filter media, we use our **progressively structured high-performance nonwovens made in-house from tear-resistant synthetic organic fibers.**
- High separation capacity with low pressure drop, **long service life and excellent cost-efficiency.**
- Thanks to their high dust-holding capacity and low pressure drop over the operating time, the G 35 series filters ensure reduced energy costs and lower CO_2 emissions.
- G 35 pocket filters are free of glass fibers, non-corroding and **microbiologically inactive.** They also meet all hygiene requirements for HVAC systems to the VDI 6022 standard.
- **Maximized functional reliability** thanks to the leak-proof welded configuration of the filter pockets, foamed-in polyurethane front frame, aerodynamically optimized welded-in spacers (long-pocket filters only), and dimensionally stable construction of the filter element as a whole.
- The uniformly high quality of the filters is assured by our certified **quality management system** to ISO 9001, as well as by type-testing to EN 779.

The special features

- The robust filter series for heavy coarse dust loadings, even at high air flow rates.
- High functional reliability, even under extremely moist and wet operating conditions.
- Thanks to their shorter pockets, G 35 filters offer a **space-saving solution** for plants where the use of long-pocket filters would not be possible.
- To optimize pre-filtration and/or when used in confined spaces, an **additional filter stage** can be inserted into an existing filter wall using the reverse-flow G 35 R short-pocket filter. The filter is attached to the main filter using clips. The required supporting basket, adhesive seals and mounting brackets are available as accessories.

Geometries available		G 35 S 1/1	G 35 S 5/6	G 35 S 1/2	G 35 SL 1/1	G 35 SL 5/6	G 35 SL 1/2	G 35 SL 1/4	G 35 SE 1/1	G 35 SEL 1/1
Effective filtering area	m²	2.0	1.6	1.2	4.0	3.2	2.4	1.5	4.7	6.2
Weight approx.	kg	1.2	1.0	0.8	1.7	1.5	1.2	0.7	2.3	2.7
Front frame	mm	592×592	492×592	289×592	592×592	492×592	289×592	289×289	592×592	592×592
Overall depth	mm	330	330	330	650	650	650	650	510	650
Number of pockets		5	4	3	5	4	3	4	8	8
Suitable for standard mounting frame	mm	610×610	508×610	305×610	610×610	508×610	305×610	305×305	610×610	610×610
Thermal stability	°C	70	70	70	70	70	70	70	70	70
Moisture-resistance (rel. hum.)	%	100	100	100	100	100	100	100	100	100

Freudenberg
Filtration Technologies

Freudenberg

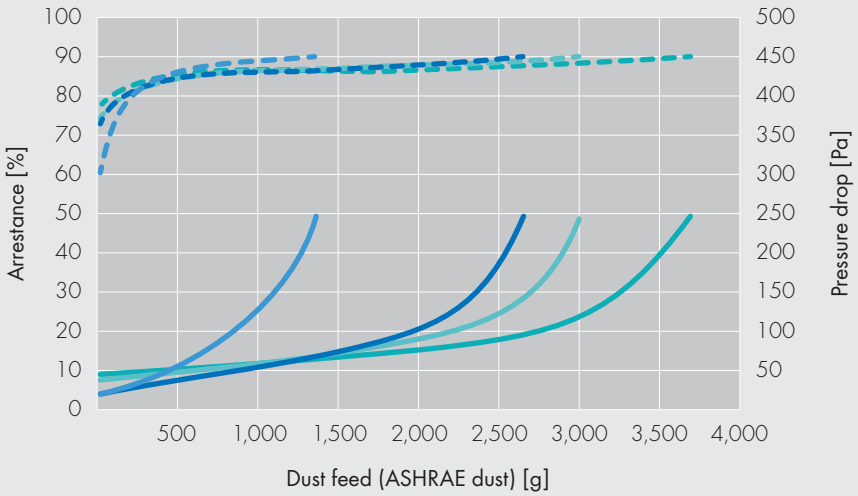
Technical filter test data to EN 779

Arrestance and pressure drop
plotted against dust feed at nominal volume flow rate

Arrestance G 35 S
Arrestance G 35 SL
Arrestance G 35 SE
Arrestance G 35 SEL

Pressure drop G 35 S
Pressure drop G 35 SL
Pressure drop G 35 SE
Pressure drop G 35 SEL

G 35 S + G 35 SL + G 35 SE + G 35 SEL

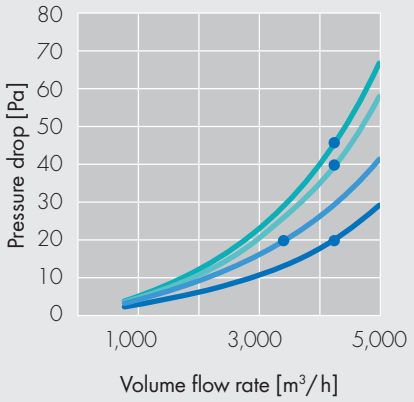


Initial pressure drop curves

Nominal air flow rate ●

G 35 S 1/1
G 35 SL 1/1
G 35 SE 1/1
G 35 SEL 1/1

G 35 S + G 35 SL + G 35 SE + G 35 SEL



Key data		G 35 S 1/1	G 35 SL 1/1	G 35 SE 1/1	G 35 SEL 1/1
Filter class		G 3	G 3	G 3	G 3
Average arrestance A_m	%	86	86	86	86
Face velocity	m/s	2.5	3.2	3.2	3.2
Nominal volume flow rate ●	m³/h	3,400	4,250	4,250	4,250
Initial pressure drop	Pa	20	20	40	45
Final pressure drop*	Pa	250	250	250	250
Dust-holding capacity approx. (ASHRAE dust)	g	1,180	2,300	2,600	3,200

The figures shown are mean values, subject to tolerances due to normal production variables. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations.

* For cost-efficiency or system-specific reasons, it may be appropriate to change the filters before reaching the stated final pressure drop. Exceeding those limits may also be possible in certain applications.

Freudenberg Filtration Technologies SE & Co. KG
69465 Weinheim / Germany
Phone +49 (0) 6201 80-6264 | Fax +49 (0) 6201 88-6299
viledon@freudenberg-filter.com | www.freudenberg-filter.com

02-CC-056-September-2012-EN