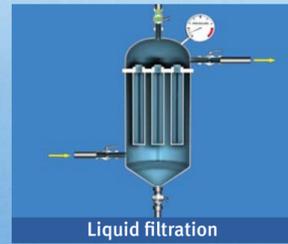


GKN Sinter Metals Filters, the leading manufacturer of porous sinter metal products, offers a variety of solutions to fulfil customer requirements. We are familiar with various applications in almost every industrial branch. Our products are applied in gas- and liquid filtration, dampening, sparging, sensor protection, bulk handling and many more. We offer solutions for high temperature and corrosive environments. Sintered filter elements made of stainless steels, bronze, nickel based alloys, titanium and several special alloys can be manufactured seamless up to 1,500 mm length and 320 mm OD. Larger elements will be assembled in our certified inhouse welding shop. Our most innovative product for the chemical industry is the patented metallic membrane SIKA-R...AS.

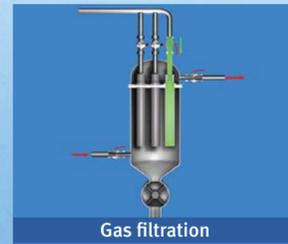


Liquid filtration

The filter cartridges equipped with this state-of-the-art technology offer a flow rate up to 4 times higher compared to conventional sinter metal filter cartridges. Furthermore an excellent back flush performance is guaranteed. The filter active membrane layer with filter grades down to 0.1 µm absolute has a thickness of only 200 µm and is made of the same alloy as the coarse support material. The membrane is sinter bonded to the support and therefore cannot peel off.

Another innovation introduced by GKN is the sinter bonded joint of porous parts with solid fittings in order to avoid welding seams – the weak spot of all sintered cartridges of our competitors.

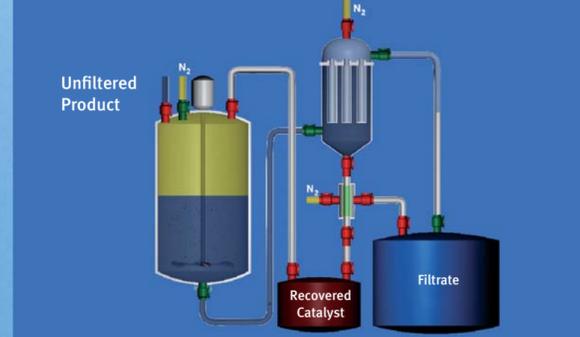
All sintered materials of GKN offer a self-supporting structure with high mechanical strength. We manufacture various filter grades with specified pore sizes and flow rates in order to have the appropriate solution for your requirements.



Gas filtration



SIKA-Sparger



Application

- Aeration
- Carbonisation
- Catalyst recovery
- Catalyst retainer
- Flame arrestors
- Flow restrictors /
- Semi conductor Industry
- Fluidizing
- Gas filtration
- Hot gas filtration
- Liquid filtration
- Steam filtration
- Slurry oil filtration
- Silencing
- Wine filtration

Advantages

- High Temperature resistance
- High corrosion resistance
- Nickel based alloys available
- High mechanical strength
- Excellent back pulse performance
- Design flexibility

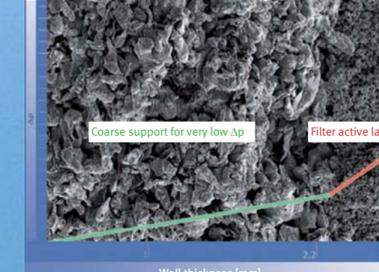
Material	Name	Mat.-No.	SIKA-					Fe	Cr	Ni	C	Mo	Miscellany	Max. Temperature °C		Keyword
			R... JS	AX	AS	FIL	B							Reducing	Oxidizing	
High alloyed material	AISI 304 L	1.4306	x	x	x		Bal.	18.0-20.0	8.0-12.0	≤0.03	0.5	N≤0.1	600	500	Standard for food application	
	AISI 316 L	1.4404	x	x	x		Bal.	16.0-18.0	10.0-14.0	≤0.03	2.0-3.0	N≤0.1	540	400		
													380	320		
	AISI 904 L	1.4539	x	x	x		Bal.	19.0-21.0	24.0-26.0	≤0.02	4.0-5.0	N≤0.15 Cu 1.2-2.0	600	500	Resistant against sulphuric acid, phosphoric and hydrochloric acid	
High alloyed material	AISI 310	1.4841				x	Bal.	24.0-26.0	19.0-22.0	≤0.25	-	-	800	600	Heat resistant	
	FeCrAl	1.4767 Mod.				x	Bal.	19.0-22.0	-	≤0.10	-	Al 5.0-6.5 with rare earth elements	unfit	900		
Nickel based alloys*	Hastelloy C 22	2.4602	x				2.0-6.0	20.0-22.5	Bal.	≤0.02	12.0-14.5	W 2.0-3.5 Co 2.5	650	650	Corrosion resistant with various aggressive media. Duration application at > 400 °C possible.	
	Hastelloy C 276	2.4819	x	x			4.0-7.0	14.0-16.0	Bal.	≤0.02	15.0-17.0	W 3.0-4.5	650	650		
	Hastelloy X	2.4665	x	x			17.0-20.0	20.5-23.0	Bal.	≤0.15	8.0-10.0	Co 0.5-2.5 W 0.2-1.0	930	800		
	Inconel 600	2.4816	x	x	x		6.0-10.0	14.0-17.0	≥72.0	≤0.15	-	-	700	600	Resistant against Cl-containing media	
	Inconel 625	2.4856	x	x			≤5.00	20.0-23.0	≥58.0	≤0.10	8.0-10.0	Nb 3.15-4.15	650	650		
	Monel 400	2.4360	x	x	x		<2.0	-	≥63.0	≤0.30	-	Cu 28.0-34.0	500	500		
Bronze**	89/11 AK	-										Sn 9-11 < 2 % others Rest Cu	300	250	Typically used for hydraulic & pneumatic	
Titanium	Ti	-	x	x								Ti > 99 %	500	500	Medicine, acid, electrolysis	
Other	Other materials on request											Not all raw materials are in stock. Typical Iron or Nickel elements e.g. Si, Mn, P, S according to the literature. * Nickel based AX-products only after consultation. Not all dimensions feasible. ** Nickel plating possible				



Surface of SIKA-R



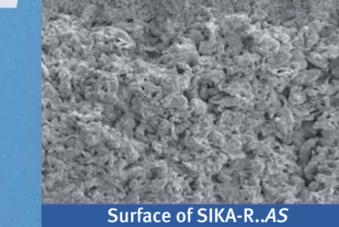
Surface of SIKA-B



Surface of SIKA-FIL

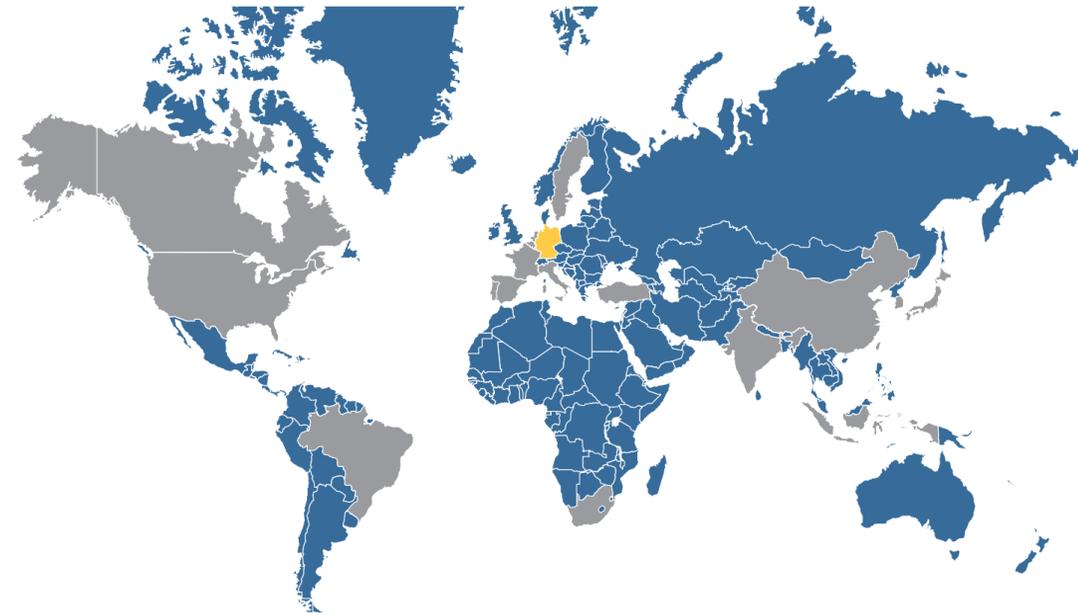


Surface of SIKA-FIL



Surface of SIKA-R...AS





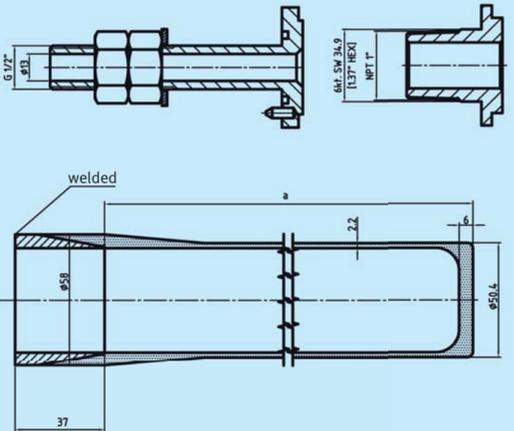
THINK > Filter Technology



Porous Metal Products

Dimension a

1463	(57.598")
1200	(47.244")
1083	(42.638")
1000	(39.37")
953	(37.52")
903	(35.551")
874,5	(34.429")
807	(31.772")
800	(31.496")
693	(27.284")
600	(23.622")
563	(22.1654")
360	(14.173")



Questionnaire Liquid Filtration

Customer _____
 Address _____
 Contact person _____ Dept. _____
 Phone _____ Fax _____ E-mail _____

1. Liquid

Chem. Composition of Liquid		
Operating Temperature	min °C max °C	min °F max °F
Operating Pressure	bar (abs.)	psi
Flow Rate	m ³ /h	CFH
Liquid density (actual)	kg/m ³	
Liquid viscosity (actual)	Pa s	

2. Solids in the fluid

Chemical composition		
Particle concentration	g/m ³ N	lb/ft ³
Particle size distribution	µm	
Solids Density	g/cm ³	lb/ft ³

3. Operating Parameter

Mode of operation	continuous	discontinuous
Solids recovery	yes	no
Cleaning procedure	automatic	manual
Max. allowed Pressure Drop	mbar	psi
Particle size to be removed	µm	
Cycle of back washing		
Back washing media		
Back washing Pressure	bar (abs.)	psi

4. Filter Unit

Material of Construction	<input type="checkbox"/> New Equipment	<input type="checkbox"/> Spare part
Connecting pipes	<input type="checkbox"/> Increase Capacity	<input type="checkbox"/> Pre/After filter
	<input type="checkbox"/> Resell	<input type="checkbox"/> Own requirements

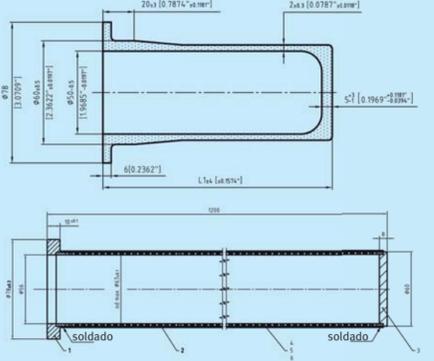
5. Activities

	<input type="checkbox"/> Offer	<input type="checkbox"/> Visit
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Unsere Standorte / Our Locations

- Hauptsitz und Fertigung / Head Quarter and Manufacturing
- Lokale Vertriebspartner / Local Sales Partners

GKN Sinter Metals Filters GmbH
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 P.O. Box 1520 · D-42464 Radevormwald
 Phone: +49 (0) 2195-609-0
 Fax: +49 (0) 2195-609-348
 E-Mail: info@gkn-filters.com
www.gkn.com/filters

Fibre felt		Powdered Metal	
Outer Diameter (mm)	Length (mm)	Outer Diameter (mm)	Length (mm)
50	500, 1000, 1500, 2000	60	500, 1000, 1200
90	500, 1000, 1500, 2000		
150	500, 1000, 1500, 2000		

Questionnaire Gas Filtration

Customer _____
 Address _____
 Contact person _____ Dept. _____
 Phone _____ Fax _____ E-mail _____

1. Gas (Chem. Composition)

Operating Temperature	min °C	max °C	min °F	max °F
Dew point	°C		°F	
Operating Pressure	bar (abs.)		psi	
Gas Volumetric Flow Rate (nominal)	m ³ /h		CFH	
Gas Volumetric Flow Rate (actual)	m ³ /h		CFH	
Gas density	kg/m ³			
Gas viscosity	Pa s			

2. Solids in Gas

Chemical composition		
Dust concentration	g/m ³ N	lb/ft ³
Particle size distribution	µm	
Solids Density	g/cm ³	lb/ft ³

3. Operating Parameter

Mode of operation	continous	discontinuous
Solids recovery	yes	no
Cleaning procedure	automatic	manual
Max. allowed Pressure Drop	mbar	psi
Max. permissible contents of dust	g/m ³	lb/ft ³
Type of back pulse gas		
Back Pulse gas Temperature	°C	°F
Back Pulse gas Pressure	bar (abs.)	psi

4. Filter Unit

Material of Construction	<input type="checkbox"/> New Equipment	<input type="checkbox"/> Spare part
Connecting pipes	<input type="checkbox"/> Increase Capacity	<input type="checkbox"/> Pre/After filter
	<input type="checkbox"/> Resell	<input type="checkbox"/> Own requirements

5. Activities

	<input type="checkbox"/> Offer	<input type="checkbox"/> Visit
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