

Materials and products

Material	Name	Wst-No	SIKA-				Fe	Cr	Ni	C	Mo	Miscellany	Max. Temperature °C		Keyword
			R IS	AX	AS	FIL							B	Reducing	
in weight-%															
High alloyed material	AISI 304 L	1,4306	x	x	x		Bal.	18.0~20.0	8.0~12.0	<=0.03	–	N<=0.1	600	500	Standard for food application
	AISI 316 L	1,4404	x	x	x	x	Bal.	16.0~18.0	10.0~14.0	<=0.03	2.0~3.0	N<=0.1	540	400	
	AISI 904	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
	AISI 310	1,4841	x	x	x	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	1000
Nickel based alloys*	Pure Nickel	2,4060	x	x			<=0.25	–	>99.6	<=0.08	–	–	600	600	Resistant against basic media
	Hastelloy B	2,4800	x				4.0~7.0	<=1.00	Bal. (>60)	<=0.05	26.0~30.0	Co <=2.50 V 0.2~0.4	550	550	Corrosion resistant with various aggressive media. Duration application at >400 °C possible
	Hastelloy C 276	2,4849	x	x			4.0~7.0	14.0~16.0	Bal.	<0.02	15.0~17.0	W 3.0~4.5	–	–	
	Hastelloy X	2,4665	x	x			17.0~20.0	20.5~23.0	Bal.	–	8.0~10.0	Co 0.5~2.5 W 0.2~1.0	930	800	
	Inconel 600	2,4816	x	x	x		6.0~1.0	14.0~17.0	>=72.0	0.05~0.01	–	–	800	600	
	Inconel 625	2,4856	x		x		<=5.00	20.0~23.0	>=58.0	0.03~0.10	8.0~10.0	Nb 3.15~4.15	650	650	
	Monel 400	2,4360	x	x	x		1.0~2.5	–	>=63.0	0.12	–	Cu 28.0~34.0	500	500	Resistant against Cl-containing media
Bronze	CuSn 12	2,1052					x	–	–	–	–	Cu 89 Sn 11	300	250	Typically used for hydraulic & pneumatic
Titan*	Ti	–	x	x				–	–	–	–	Ti >99%	500	500	Medicine, acid, electrolysis
Other	Other materials on request.														

* Not all raw materials are in stock. * Nickel based AX-products only after consultation. Not all dimensions producible.

Typical Iron or Nickel elements e.g. Si, Mn, P, S according to the literature.



SIKA-R...IS

- Made from sintered metal powder (A variety of alloys are used, depending upon requirement)
- Filter grades from 0.5 – 200 µm
- The opportunity to use different alloys allows for use up to 950 °C
- Seamless up to 1500 mm in length and up to 300 mm in diameter



SIKA-FIL

- Produced from stainless steel fibers
- 60 – 90 % porosity
- Filter grades from 1 – 100 µm
- Employed mainly in gas filtration with high gas velocities



SIKA-R...AX

- Axial pressed filters made of metal powder (A variety of alloys are used, depending upon requirement)
- Filter grades between 0.5 and 200 µm
- Employed mainly in gas and liquid filtration



SIKA-B

- Gravity sintered filters made of bronze
- Filter grades between 8 and 200 µm
- Employed mainly in pneumatic - hydraulic application and polymer filtration
- Best for complex shapes



SIKA-R...AS

- Asymmetric designed powder / powder composite, consisting of a coarse support and a thin filter active layer of the SAME alloy
- Developed for surface filtration (up to four times higher flow rates with improved back-flushing performance)
- Employed in catalyst recovery and cross flow application



SIKA- Modules

- Customer designed elements with fitting
- Possible for guaranteed flow or pressure drop
- Employed mainly for sensor protection and flow restrictors
- Welding constructions