

SAATIFIL ACOUSTEX

Precision woven mesh for protection of consumer and industrial communication devices



Main Features of Saatifil Acoustex® meshes:

- Smooth monofilament fiber
- High precision and consistency
- Flat frequency response over the widest possible range
- Efficient protection from dust, metal particles and liquids
- Strict airflow control
- Halogen-free
- Complying with REACH and RoHS
- Low moisture absorption thanks to Polyester polymer

Main Applications



Mobile phones



Tablets



Microphones



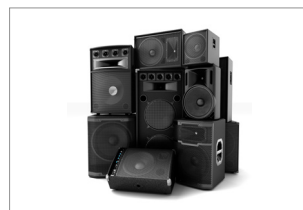
Earbuds



Wireless Headset



Headphones



Loudspeakers



Laptops

Standard materials

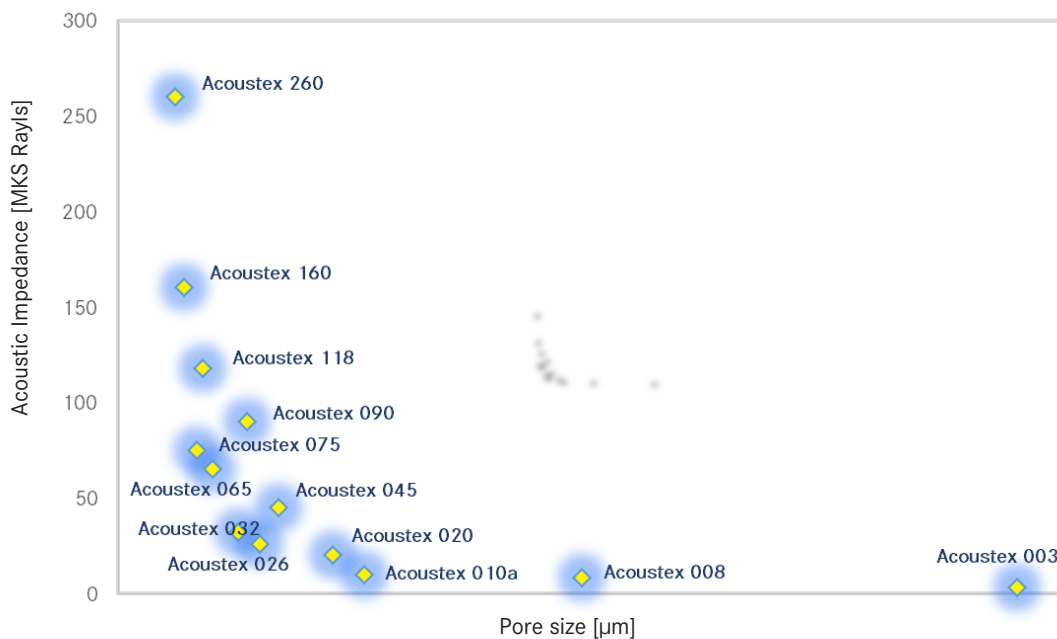
Item name	Specific Airflow Resistance		Pore size [µm]	Open Area [%]	Thickness [µm]	Weight [g/m ²]
	[MKS rayls] ⁽¹⁾	[CGS Acoustic Ohms ⁽²⁾ over 1 cm ²]				
Acoustex 003	3	0,3	285	44	255	110
Acoustex 008	8	0,8	147	34	120	77
Acoustex 010a	10	1,0	78	50	52	19
Acoustex 020	20	2,0	68	38	62	32
Acoustex 026	26	2,6	45	37	45	24
Acoustex 032	32	3,2	38	31	48	25
Acoustex 045	45	4,5	51	18	108	68
Acoustex 065	65	6,5	30	24	60	35
Acoustex 075	75	7,5	25	20	52	33
Acoustex 090	90	9,0	41	14	125	86
Acoustex 118	118	11,8	27	14	72	53
Acoustex 160	160	16,0	21	15	58	45
Acoustex 260	260	26,0	18	13	60	48

⁽¹⁾ [Pa s/m]

⁽²⁾ [microbar s/cm³]

The complete SAATIFIL ACOUSTEX range of products is halogen-free and satisfies the requirements of RoHS and REACH.

Standard materials



Performance materials

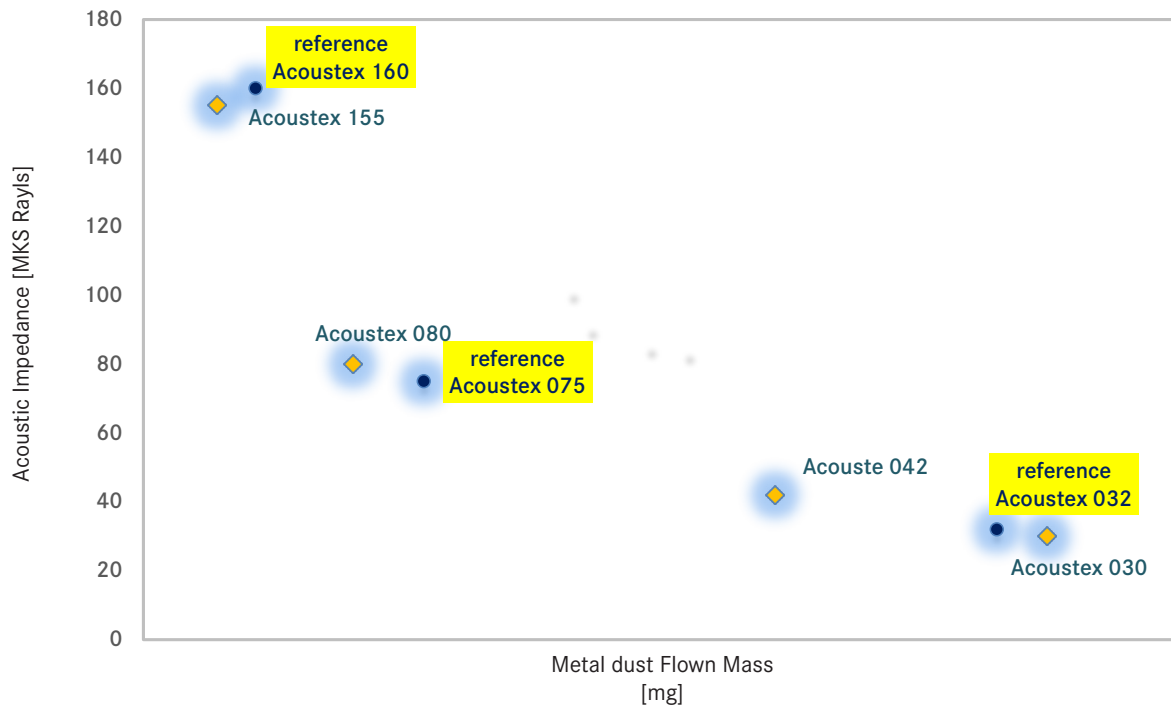
Item name	Specific Airflow Resistance		Metal dust [mg]	Open Area [%]	Thickness [µm]	Weight [g/m ²]
	[MKS rayls] ⁽¹⁾	[CGS Acoustic Ohms ⁽²⁾ over 1 cm ²]				
Acoustex 006a	6	0,6	-	60	40	12
Acoustex 015a	15	1,5	56,3	43	45	18
Acoustex 030	30	3,0	30,6	32	43	22
Acoustex 042	42	4,2	21,4	29	46	24
Acoustex 080	80	8,0	7,1	27	44	28
Acoustex 155	155	15,5	2,5	18	44	32

⁽¹⁾ [Pa s/m]

⁽²⁾ [microbar s/cm³]

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Particle protection Performance materials



SAATI Customization

At our state-of-the-art facilities, we also provide tailor-made solutions, guaranteeing superior quality and lot-to-lot consistency of the products.



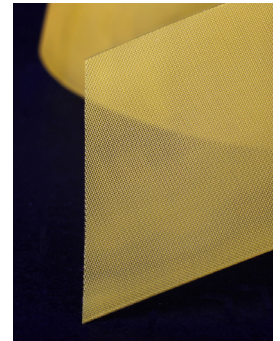
Dyeing



Hydrophobic Coating



Metal Coating



Fabricated parts

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Company Profile

SAATI is a multinational group with its corporate headquarters in northern Italy, weaving the future since 1935.

Today we are leader in the development, manufacturing and commercialization of advanced technical textiles and chemicals.

The SAATI acoustic team works globally with Consumer Electronics customers to meet their current and future needs in all these areas.