

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



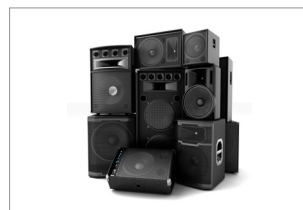
Earbuds



Wireless Headset



Headphones



Loudspeakers



Laptops

Standard materials

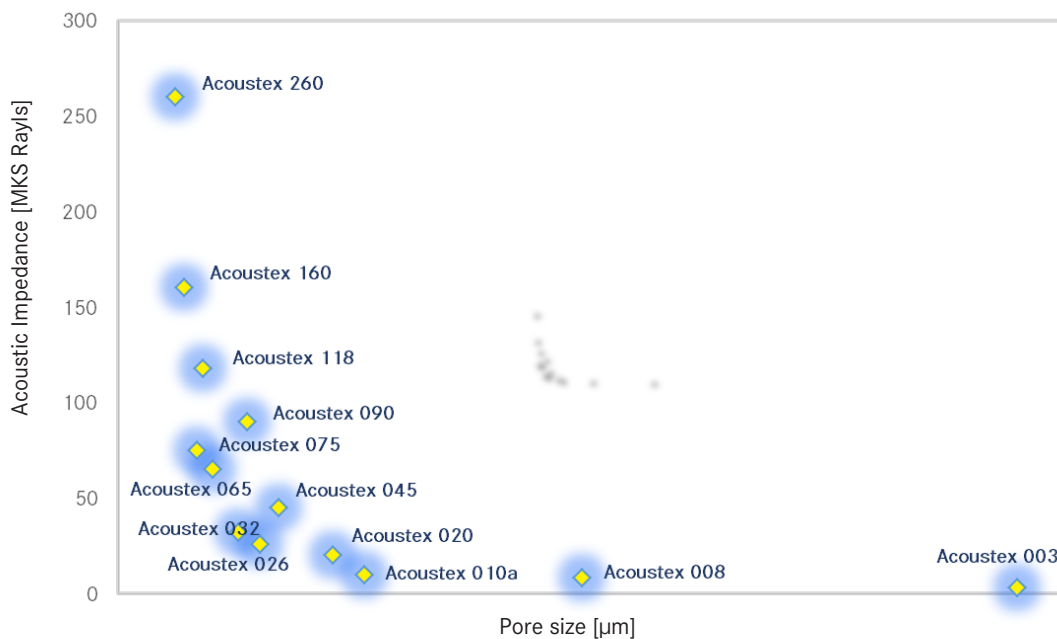
| Item name | Specific Airflow Resistance | | Pore size [µm] | Open Area [%] | Thickness [µm] | Weight [g/m ²] |
|---------------|-----------------------------|--|----------------|---------------|----------------|----------------------------|
| | [MKS rayls] ⁽¹⁾ | [CGS Acoustic Ohms ⁽²⁾ over 1 cm ²] | | | | |
| 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

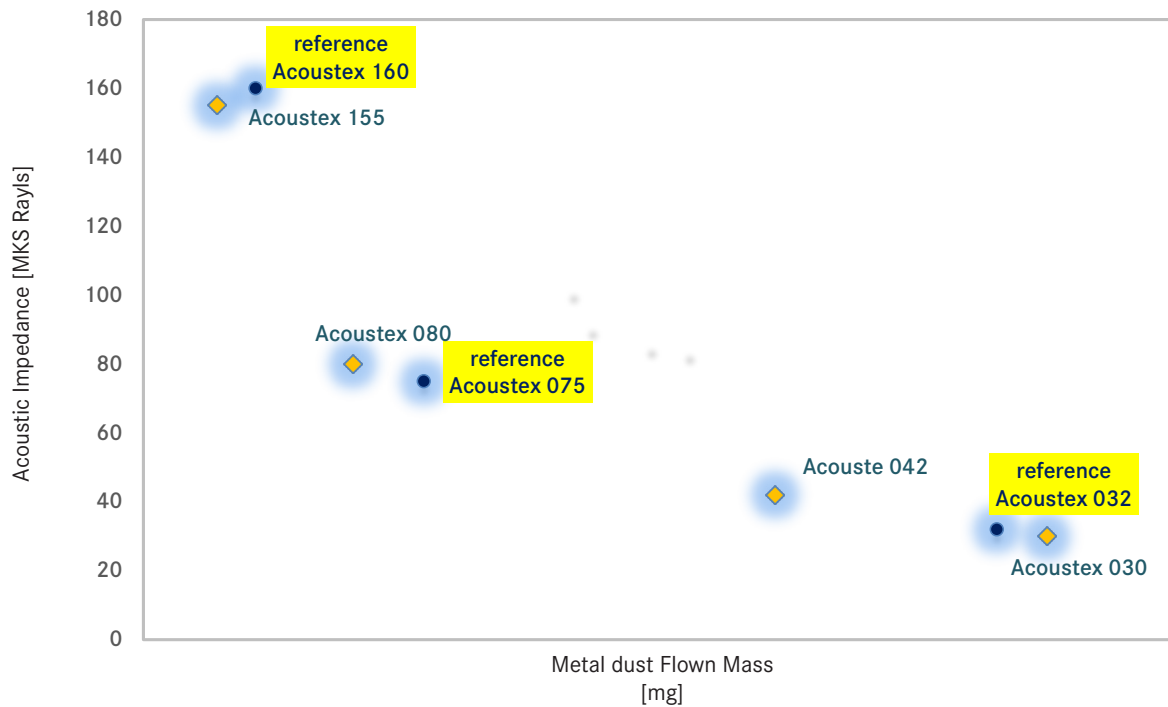
| Item name | Specific Airflow Resistance | | Metal dust [mg] | Open Area [%] | Thickness [µm] | Weight [g/m ²] |
|---------------|-----------------------------|--|-----------------|---------------|----------------|----------------------------|
| | [MKS rayls] ⁽¹⁾ | [CGS Acoustic Ohms ⁽²⁾ over 1 cm ²] | | | | |
| 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.



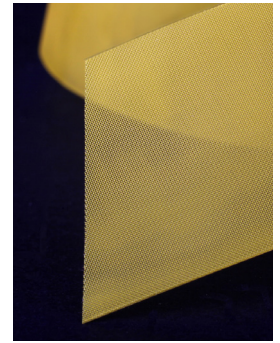
Dyeing



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.