



Different to most similar products been treated in flame retardant, Nanosox-N series adopts the material from directly weaved fabric with Nanotechnology and permanent fire-retardant property, which gets the best fireproofing feature with no influence during washing. Nanosox-N series provides higher physical properties, including high pressure resistance, tensile strength, stable permeability, antimicrobial, antistatic etc. anti-corrosion. Along with 10 standard permeation rates and 15 years warranty, it is the top level and most widely used product series, which has gained various certifications and patents from national and abroad.



## **N / General**

It is made of Nanosox-N® fabric with different permeability. Typically, it can be applied to all kinds of heating and cooling spaces to meet general comfort requirements.



## **N - M / Anti-Microbial**

It is produced from Nanosox-N® fabric with permanent antimicrobial and flame resistance performance. It is generally used in various industrial areas where hygienic environments are demanded, such as food, medicine, and clean rooms.



## **N - S / Anti-Static**

It is produced from Nanosox-N® with a combination of fabric with various permeability and natural anti-static fibers. It is generally used in industrial environments where static precision is required, such as electronics, chemistry, and precision manufacturing.



## **NOO / non-permeable**

It is made of impermeable Nanosox-N® fabric. They are generally used for heating and ventilation of high and large areas such as warehouses and workshops. They are also preferred for environments that require light cooling.

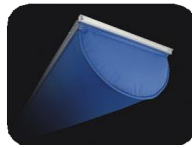
## Models



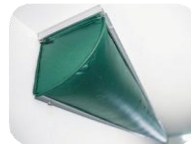
Full Round-O



Half Round-D



Large Half Round HD



Quarter Round-O



Conic-C



Rectangle-S

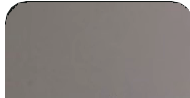
## Air Outlet Model



Mesh Slot  
Model-MS



S-slot  
Model-SS



Linear slot  
Model-LS



Orifice —O



Nozzle - N



Adjustable  
Nozul-AN



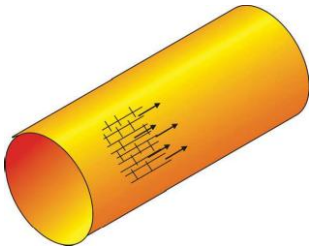
Rubber  
Ring-R

\*Nozzle Diameter 1" / 1.5", Rubber ring size : 2" / 2.5"

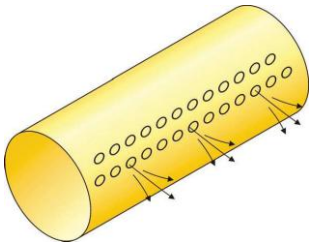
## Technical Specifications

Property	Items		Index	Results	Code compliance	Testing organization	Remarks
Material property	Ten Permeability		0/0.2/0.5/1/2/4/6/8/16/20cfm/ft² at 0.5"w.g	0/0.2/0.48/1/2 /5.8/8.2/15.5/20	ASTM D737 GB/T 5453-1997	CTTC	
	Fire Safety	B	FIGRA, Ws≤120 THR600s, MJ≤7.5	7 1,1	GB 8624-2012 EN13501-1 : 2007	NFTC SGS	Formal testing
		s1	SMOGRa, m/s²≤30 TSP600s, m ≤50	0 13			
		d0	Flaming particles or droplets withing 600s Ignition of the filter paper	No No			
		t0	Smoke Toxity ZAI	ZA1			
		Class 1	Calculated Smoke Developed(CSD) ≤ 50 Flame Spread Index(FSI) < 25	20 0	UI 2518	UL TUV SUD PSB	Formal testing and UL certificate
		Physic Property	Class 0	Fire propagation index	0.4		BS 476-6,7:1997
	Weight		7.20z/yd² (245g/m) ± 5%	7.23oz (248g)	ASTM D3776	Formal testing	
	Tensile strength		> 3.4lb (15N)	6.51b (29N)	GB/T 3917.1-1997	CTTC	
	Tear strength		> 112lb (500N)	279lb (1240N)	GB/T 3923.1-1997		
	Shrinkage after washing		< 2%	0.5%	GB/T 8630-2002		
	Permeability tolerance CV(%)		< 5%	3.7%	GB/T5453-1997		
	Temperature range		-17.8°C(0 F)(24hours); 129°C(265F)(60days) No change apperance	No change	UI 2518	UL	Formal testing and UL certificate
	Operational Performans	Clean & fibre drop property	No fabric drops	No change	UI 2518	UL	
		Anti-mold	No Destroying or decomposing after 60days under condition of UI1181	No change	UI 2518	UL	
		Textile health security	PH 4.0-7.5	7.4	GB 18401-2003	CTTC	Class A ( Baby cloth type )
			Formaldehyde contents ≤20mg/kg (20ppm)	Accord			
			Decomposable Aromatic Amine dyes ≤20mg/kg (20ppm)	Unfound			
			No abnormal odor	None			
	N-M Anti- microbial	>95%	>99%	ASTM E2149	CTTC		
N-S Anti - static		0.093µc/ft² (1.0µc/m²)	GB/T 12703-1991	CTTC			
System performance	Pressure resistance		No change at 7.6 in*wg (1900pa) static pressure	No change	Ac167 & UL181	UL	Formal testing and UL certificate
			Appearance no charge, no tear, no damage at 8 in*wg (2000pa) static pressure	No change	JGJ 141-2004	National center of quality supervision and inspection and testing for air condition equipment	
	Passive permeability	Passive permeability vol. at 2 in*wg (5002)	≤2.8cfm/ft² ( 50m³/h/m² )	0.84 ( 25m³/h/m² )			
		Passive permeability vol.at 4 in*wg (1000Pa)	≤5.5cfm/ft² ( 100m³/h/m² )	1.98 ( 25m³/h/m² )			
	Dimension tolarence		≤ 1%	No change			

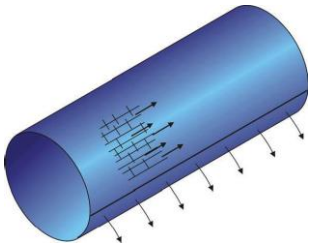
Air Flow Models



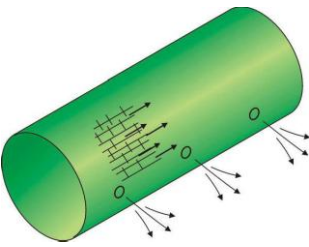
PM - Permeable



EJ - Direct Blowing



PS - Transmissive and slotted



PE - Permeable and direct blowing

Colors

