



SHENZHOU RUBBER FOAM

Group Introduction

Shenzhou Group is an energy-saving and environmentally friendly enterprise integrating R&D, manufacturing and service of thermal insulation, sound absorption and noise reduction materials. With 40 years' development history, the group has become a leading manufacturer in the heat insulation and energy saving industry. It covers an area of 1.06 million square meters, including a manufacturing area of 680,000 square meters.

The Group has 6 subsidiaries, 12 plants. It produces seven main series of products including rubber foam, fiberglass, ceramic wool, sound absorption and noise reduction materials, rock wool, XPS and aerogel. Its products are widely used in construction, central air conditioning, refrigerator refrigeration, petrochemical, Marine locomotive, aerospace, thermal power, sound-absorbing noise reduction, and other industries. Equipped with internationally advanced production equipment and technology, the Group's annual production volume of rubber foam is 2.6 million m³, fiberglass 230,000 tons, rock wool 120,000 tons, and ceramic wool 28,000 tons.



Rubber Foam Product

Shenzhou Class 0/Class 1 rubber foam is a kind of flexible insulation material with completely closed cell, which is mainly made of nitrile but a diene rubber. The product has excellent thermal performance. It is widely used in various public places, industrial plants, clean rooms, medical scenes, education scenes and others.

Product Category: Class 0/1 Rubber Foam

Product Type: Board/ Roll/ Tube



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Tube Specifications and Models Table

Suitable for Tube Sizes			Inside Diameter	Insulation Wall Thickness(mm)						
(in) Outer Diameter of Copper Pipe	(DN) Galvanized Pipe Nominal	(mm) Seamless Pipe Outside Diameter	(mm) Rubber Foam Inside Diameter	9	15	20	25	32	40	50
1/4"	—	—	6	6X9	6X15	6X20				
3/8"	6	—	10	10X9	10X15	10X20				
1/2"	—	—	13	13X9	13X15	13X20	13X25			
5/8"	8	14	16	16X9	16X15	16X20	16X25	16X32		
3/4"	—	—	19	19X9	19X15	19X20	19X25	19X32		
7/8"	15	22	22	22X9	22X15	22X20	22X25	22X30		
1"	—	25	25	25X9	25X15	25X20	25X25	25X32	25X40	25X50
1-1/8"	20	28	28	27X9	27X15	27X20	27X25	27X32	27X40	27X50
1-1/4"	—	32	32	32X9	32X15	32X20	32X25	32X32	32X40	32X50
—	—	—	34	34X9	34X15	34X20	34X25	34X32	34X40	34X50
1-1/2"	—	38	38	38X9	38X15	38X20	38X25	38X32	38X40	38X50
1-5/8"	32	—	43	43X9	43X15	43X20	43X25	43X32	43X40	43X50
1-7/8"	40	—	48	48X9	48X15	48X20	48X25	48X32	48X40	48X50
2-1/4"	—	57	57	57X9	57X15	57X20	57X25	57X30	57X30	57X30
2-3/8"	50	—	60	60X9	60X15	60X20	60X25	60X30	60X30	60X30
—	70	76	76		76X15	76X20	76X25	76X30	76X30	76X30
—	80	89	89		89X15	89X20	89X25	89X30	89X30	89X30
—	—	108	108		108X15	108X20	108X25	108X30	108X30	108X30

Sheet Specifications and Models Table

Test Items	Length(m)	Width (m)	Area (m ²)
10mm	20	1	20
15mm	10	1.2	12
	8	1.5	
20mm	10	1.2	
	8	1.5	
25mm	10	1.2	
	8	1.5	
30mm	10	1.2	
	8	1.5	

Note:

- Pipe length is 2m, diameter is larger than 100mm, rubber foam sheet will be adviced.
- Double-layer or multi-layer installation is recommended when the insulation layer is larger than 50mm.
- The above specifications are commonly used specifications, products for black, such as special specifications and colors, to communicate with the sales staff to customize.
- The materials should be stored in a clean and dry place in a normal room with a relative humidity of 50-70% and an ambient temperature of 0-35 °C.



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Technical Data Sheet

Test Items	Performance Indicators					Compliance Standards
Density	$\leq 95 \text{ kg/m}^3$					GB/T 6343-2009
Service Temperature	-40°C to 105°C					
Thermal Conductivity	Average Temp.	-20°C	0°C	$+25^\circ\text{C}$	GB/T 10294-2008	
	W/m.K	0.032	0.034	0.036	ASTM C518 ASTM C177	
Water Vapour Permeability	$< 4.0 \times 10^{-11} \text{g}/(\text{m.s.Pa})$ $u \geq 4500$					GB/T 17146-2015
Water Absorption by Volume	$\leq 0.50\%$					GB/T 17794-2021
Reaction to Fire	B1 grade (C-s3, d0, t1)					GB 8624-2012
	Class 1					BS 476-7
	V-0, sVA/ HF-1, Self Extinguishing, Does not Drip					UL94
Oxygen Index	≥ 32					GB/T 2406-2008
Smoke Density Class	≤ 75					GB/T 8627-2007
Compression Rebound Rate	$\geq 70\%$					GB/T 6669-2001
Dimension Stability	$\leq 10.0\%$					GB/T 8811-2008
Aging Resistance	Slightly Crumpling, No cracks, No pin holes, Not deforming					GB/T 16259-2008
Ozone Resistance Corrosion Resistance Environment	Good No Corrosion Dust and Fibre Free CFC Free, Tero ODP, Zero GWP					



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