

Technical Data Sheet Index 17.04.2019

Adasil-fibreglass-hose

The Adasil-fibreglass-hose is a fabric containing insulating sleeve. The sleeve is coated with a varnish of a silicone-elastomer. A strong connection between the fabric and the varnish layer is given due to our unique coating process. This process guaranties that fraying of fibreglass or the mechanical removal of the varnish is thus virtually eliminated. Furthermore, Adsil hoses have excellent thermal, electrical, mechanical, chemical and physiological properties. They come in many fields of application. Mentioned are the use of electronically controlled equipment, heating units, air conditioning technology and further the engine and vehicle manufacturing. The Adasil-fibreglass-hose is made due to DIN 60684-3 sheet 401:2002.

Technical characteristics Adasil-fibreglass hose:

<u>Property</u>	<u>Test* / Description</u>	<u>Test method</u>
description	insulating hose with fabric	
raw material	fibreglass	
coating	silicone-elastomer-varnish	
<u>Thermal</u>		
temperature class	C	
operating temperature	-45 to + 230 °C	
ductility after heat ageing and cold temperature	fulfilled	DIN EN 60684
Hydrolysis of the coating	fulfilled	DIN EN 60684
<u>Electrical</u>		
dielectric strength	min. 3,3 kV (higher on request)	DIN EN 60684-Blatt 401
insulating resistance at RT	min. 10 ⁵ MΩ	DIN EN 60684
flammability	max. 60 s	DIN EN 60684 proceeding B
standard colour	nature	more colours on request
form of delivery	continuously in coils and also in sections	

*Important information: By comparison the technical data, please note that the listed values are only minimum requirements of the mentioned worldwide accepted test method. The actual values are usually much better!

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Nominal dimension Adasil-fibreglass hose:

Dimensioning similar DIN 60684-3 sheet 401:

<u>Inner diameter [mm]</u>		<u>Wall thickness [mm]</u>	
<u>Nominal dimension</u>	<u>Limit deviation +</u>	<u>Nominal min.</u>	<u>Nominal max.</u>
0,3	0,1	0,15	0,30
0,5	0,2	0,20	0,50
0,8	0,2	0,20	0,50
1,0	0,4	0,20	0,60
1,5	0,4	0,20	0,60
2,0	0,4	0,20	0,70
2,5	0,4	0,20	0,70
3,0	0,4	0,20	0,70
4,0	0,5	0,30	0,70
5,0	0,5	0,30	0,70
6,0	0,5	0,30	0,70
8,0	0,5	0,30	1,00
10	1,0	0,40	1,00
12	1,0	0,40	1,20
16	2,0	0,40	1,20
<u>Nominal dimension sections to one mtr.</u>	<u>Limit deviation ± selections to one mtr.</u>	<u>Nominal dimension sections to one mtr.</u>	<u>Limit deviation ± selections to one mtr.</u>
16	1,0	0,80	0,40
18	1,0	0,80	0,40
20	1,0	0,80	0,40
22	1,0	0,80	0,40
24	1,0	0,80	0,40
26	1,0	0,90	0,50
28	1,0	0,90	0,50
30	1,2	0,90	0,50

Product range and scope of delivery

Other sizes and types on request. All hoses are produced continuously. They are available in coils and also in sections. The sections are made specifically for you by our trained personal working with special equipment.

Further is it possible to order the Adasil-fibreglass-hose with a higher wall thickness. Due to the higher wall thickness better dielectric strength are achieve. Ask us, we are happy to help.

Our products fulfil or mostly fulfil the requirements of the named engineer standards. Tests were made at certified laboratories and in the lab of our company by us. For special requirements please contact us for further information. Because of the versatility of our products it is in the responsibility of the user to test for the special case.