

# Gulf-O-Flex Insulation Tube

## Product Data

Physical Properties				
1	Cell Structure	Closed		
2	Density Gms / Cm <sup>3</sup>	0.050 - 0.070 Gms / cm <sup>3</sup>	BS 476 Part 6 & 7 ASTM D 3575-91	
3	Thermal Conductivity K Value at 40C mean Temperature	0.0391 w/m - K	ASTM C518	BS 874 1986
4	Temperature limit °C	-40 °C to +120 °C		
5	Thermal Stability % Shrinkage	2.54 (7 days at 95 °C)	ASTM D 3575-91	
6	Water Absorption	2.98	ASTM D 3575-91	
7	Water vapour Permeability perm/Max	0.19 Perm - in	ASTM E 96-95	ASTM E 96-95
8	Resistance to Ozone	Excellent	ASTM D 1149	
9	Flammability	Self Extinguishing	ASTM D 635-91	
10	Fire Rating	Class 0, Class 1 25 / 50	BS 476 Part 6 & 7 ASTM E-84	
11	Average time of Burning	Less then 4 Sec	ASTM D 1149	
12	Average extend of Burning	15min		
13	Flexibility	Excellent	ASTM D 1056-85	
14	Resistance to Weather & Ultra Violet Rays	Very Good	ASTM G 53-96	
15	Resistance to Chemicals	Very Good		
16	Odour	Negligible	SAEJ 1351	
17	Mildew resistance	No Fungal Growth	ASTM G 21-80	
18	Copper Corrosion	Negligible	ASTM C 665-94	

## Thickness Recommendations to control Condensation

THICKNESS RECOMMENDATIONS								
PIPE SIZE USED	LINE TEMP		LINE TEMP		LINE TEMP		LINE TEMP	
	50°F	10°C	35°F	2°C	0°F	-18°C	-20°F	-29°C
<b>NORMAL CONDITIONS</b> ( Max 85 Deg.F, 29Deg.C -70% RH )								
3/8" I.D.thru 1-3/8" IPS	3/8"		1/2"		3/4"		1"	
Over 1-3/8" thru 3" IPS	3/8"		1/2"		1"		1"	
Over 3" IPS thru 4" IPS	1/2"		1/2"		1"		1-1/4"	
Over 4" IPS	1/2"		3/4"		1"		1-1/4"	
<b>MILD CONDITIONS</b> ( Max 80 Deg.F, 26Deg.C -50%RH )								
3/8" I.D. thru 2-1/8" IPS	3/8"		3/8"		1/2"		1/2"	
Over 2-1/8" thru 3" IPS	3/8"		3/8"		1/2"		3/4"	
Over 3" IPS thru 4" IPS	1/2"		1/2"		3/4"		3/4"	
Over 4" IPS	1/2"		1/2"		3/4"		3/4"	
<b>SEVERE CONDITIOINS</b> ( Max 90 Deg.F, 32 Deg.C -80%RH )								
3/8" I.D. thru 1-1/4" IPS	3/4"		3/4"		1-1/4"		1-1/4"	
Over 1-1/4" ID thru 4" IPS	3/4"		1"		1-1/2"		1-1/2"	
Over 4" IPS	3/4"		1-1/4"		1-3/4"		2"	