



## **WILLIAM JOHNSTON & COMPANY LIMITED**

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### Black Closed Cell Silicone Sponge -WJSPSILB

SPECIFICATION	DETAIL	TEST
Density	16lbs per cubic ft	
Brittle Point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	24%	BS 2872 PART 1
Thermal Conductivity	6.4 x 10(-2sq) W.m(-1)	BS 874 PART 2
Radiation Resistance	>10(5) GRAYS (10(7) RADS TYPICAL	
Toxicity (NES 713 ISS 3)	14 N/MM	
Smoke Index (NES 711)	46	
Burn Rate (BS4735)	0.03MM PER SECOND	
Thermal Value	0.0695 W (M.K)	

This product meets the flammability requirements of FAR 25/JAR 25/CS 25 appendix F, Part 1,(a)(1)(iv) and (a)(1)(v) horizontal flammability test and Automotive standard PART 571FMVSS302

The sponge is closed cell with low water absorption and dust ingress protection to IP65

#### **Further information:**

The thermal stability of silicone rubber is probably its most important asset. Components made from these rubbers are affected only to a small extent by extremes of temperature, ranging from -90°C to +250°C (depending on grade). Even at temperatures as high as +300°C silicone rubber will operate for limited periods.

Silicone rubber is an excellent electrical insulating material. Its resistance to arcing, corona, ultra violet light and ozone is good. It decomposes at 400°C to 500°C leaving an inert, non-flammable and electrically non-conductive residue.

The silicone sponge sheet supplied by William Johnston & Company Limited is made of a fine cellular construction composed mainly of non-interconnecting cells.

There are many applications for the sheeting but for continuous use it will withstand temperatures between -60°C and +200°C.

#### **Disclaimer**

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.

