

## HOLROYD

BESPOKE SURFACE HEATING ELEMENTS

### OVERVIEW:

Silicone rubber products have an excellent resistance to ozone, oxidation, UV light, corona discharge, cosmic radiation and weathering in general. However, Holroyd offer closed cell foam as an additional option with our silicone heaters for additional insulation. We stock 3, 5, 8 & 12mm thick foam, with 3 different colour options: red, grey & white. Our insulation foam provides a highly efficient barrier to help reduce heat losses in many applications. Adding foam to a heater negates the requirement of adding separate insulation cladding, and in house testing has shown significant energy savings averaging 63%.

### MAIN POINTS:

- Temperature Range -60°C to 250°C
- Flame Retardant
- Low Water Absorption
- High Dust Ingress Protection
- Easy to Install
- Bonded To Heaters or Supplied Separately
- 5mm Double Sided Adhesive Option Available
- Available on HSSD's, Flat & Pre-formed Silicone Heaters
- Bespoke Shapes & Sizes



QUALITY



RELIABILITY



CREATIVITY



SERVICE



COMMUNITY

+44 (0)1799 523177

[SALES@HOLROYDCOMPONENTS.COM](mailto:SALES@HOLROYDCOMPONENTS.COM)

**HOLROYD COMPONENTS LTD**  
SHIRE HILL INDUSTRIAL ESTATE  
SAFFRON WALDEN  
ESSEX CB11 3AQ



[WWW.HOLROYDCOMPONENTS.COM](http://WWW.HOLROYDCOMPONENTS.COM)





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## SPECIFICATION:

Flame retardant cellular silicone foam construction.

## CLOSED CELL FOAM:

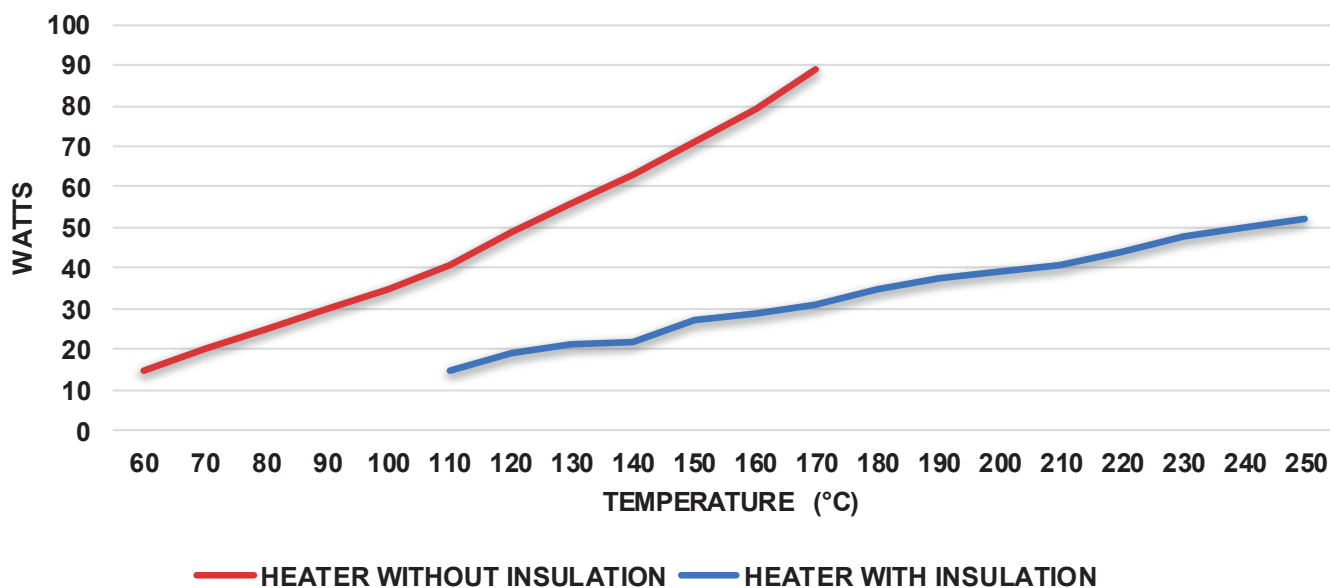
- Temperature range -60°C to 250°C
- Thermal conductivity  $6.4 \times 10^{-2} \text{W.m}^{-1}.\text{K}^{-1}$
- Brittle point: -80°C
- Limiting Oxygen Index: 24.0%
- Radiation Resistance:  $>10^5$  Grays ( $10^7$  Rads) typical

## APPLICATIONS:

- Temperature critical pipe line assemblies.
- Gas or liquid pipeline.
- Frost protection.
- To reduce heat loss on valves, pumps and flanges where heating may not be possible or together with silicone heaters to improve heating efficiency.

|                       | UNITS                  | SPEC LIMITS            | TYPICAL VALUE |
|-----------------------|------------------------|------------------------|---------------|
| DENSITY               | Kg.m-3<br>Lb.ft-3      | 200+/-40<br>12.5+/-2.5 | 195<br>12.2   |
| HARDNESS              | Shore<br>OO<br>Shore A | -                      | 41.2<br>6.4   |
| TENSILE STRENGTH      | MPa<br>Psi             | 0.4 min<br>58 min      | 0.43<br>62.4  |
| ELONGATION TO FAILURE | %                      | 15 max                 | 208           |

## ENERGY CONSUMPTION



In house testing has shown that using insulation alongside our silicone heaters offers an average energy saving of 63%.

This is actual data taken from a heater on a steel pipe with no flow (in free air).