



**Phenolic Blocks**

Manufactured in line with BS EN 14314: 2013.  
100% CFC HCFC free. Also Halgen free.  
Superior thermal insulation properties.  
Manufactured with an internal chemically applied sodium silicate bore coating, for use on all pipes including copper.  
Temperature Limit: -180 to +120 °C  
Thickness: 15, 20, 25, 30, 35, 40, 45, 50, 63, 75 & 100mm  
Applied aluminium foiled vapour barrier on all blocks.  
Can be supplied in box quantities.  
Wide range of stocked sizes.



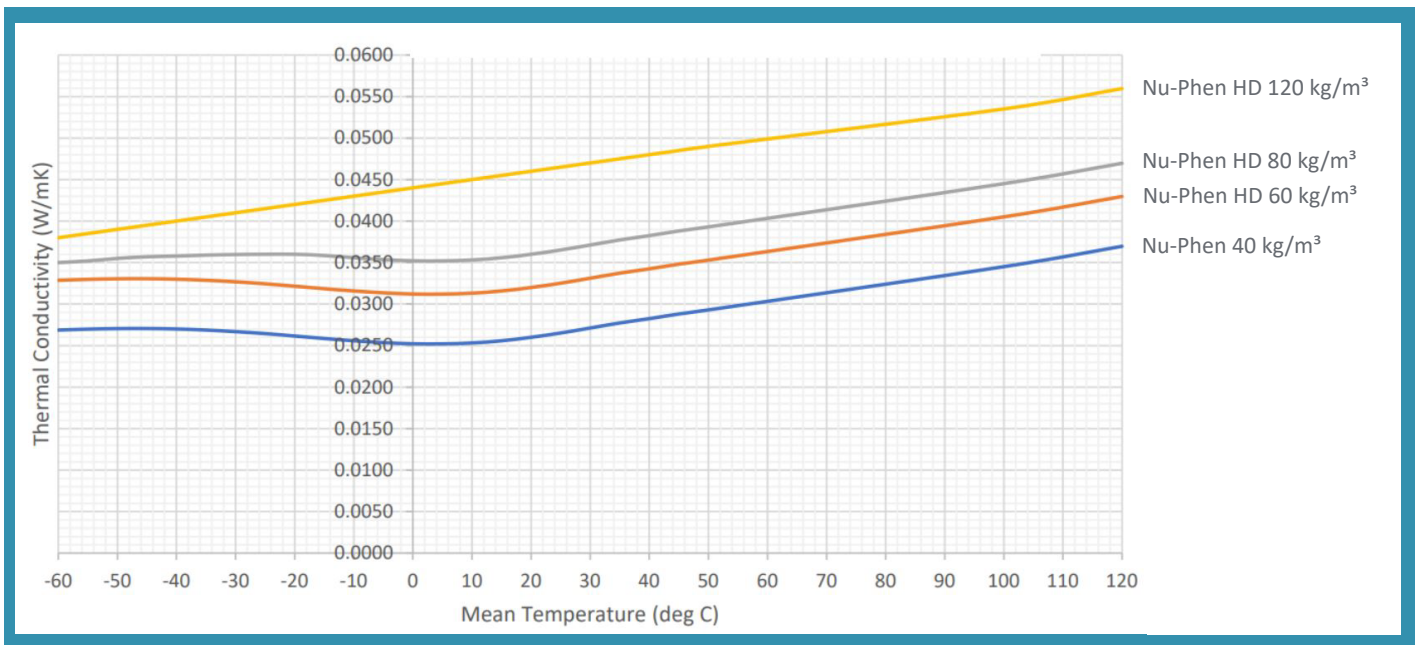
Pipe Size N.B      Copper		Support Length	Spreader Plate Metal swg	Phenolic Density kg/m³	Phenolic Compressive	Phenolic Thermal Conductivity
	15	80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
15	22	80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
20	28	80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
34	35	80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
42	42	80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
48		80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
	54	80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
60		80mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
	67	100mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
65	76	100mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
80		100mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
	108	100mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
100		100mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
	133	100mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
125		100mm	None	80 kg/m³	450 kPa	0.030 +/- 0.002 W/mk
	159	100mm	None	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk
150		125mm	20swg	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk
200		125mm	20swg	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk
250		125mm	20swg	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk
300		200mm	20swg	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk
350		200mm	20swg	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk
400		200mm	20swg	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk
450		200mm	20swg	120 kg/m³	800 kPa	0.030 +/- 0.002 W/mk

250mm nb and above supplied in segments c/w with loose spreader plate.  
We can also supply a range of support blocks to suit stainless steel pipework.





## Thermal Conductivity Curves



Nu-Phen HD is a closed cell, thermally efficient rigid foam, based on phenolic resins and containing no CFC's.

Cut to accurate dimensions on CNC equipment:

Nu-Phen HD meets industry requirements for OD's and wall thicknesses.

Nu-Phen HD meets industry standards for fire rating and smoke emissions. Fire Classification BI,s1,d0 when tested to EN 13501.

Nu-Phen HD closed-cell structure ensures excellent water vapor resistance and thermal efficiency.

Nu-Phen HD Insulation blocks supplied by Barnvale are only manufactured from 80 & 120 Kg/m³ rigid foam, eliminating lagging insulation being used.

The sodium silicate bore coating is a passivating alkaline barrier between the pipe section and the pipe surface (including mild steel, copper and stainless steel pipework).

The bore coating acts as a barrier between the insulation and the pipework to protect against corrosion.

Barnvale Phenolic Insulation blocks are cut from block (CfB), an engineered cut, close tolerance product, offering a uniform appearance. As an engineered product, it is round and concentric, in line with all engineering specifications. It complies with both BS 5422 and BS 5970.

As with all phenolic foam insulation manufactured in the UK, our Phenolic insulation blocks are manufactured in accordance with EN 14314:2009+A1:2013.

There is responsibility on the installer to ensure all pipes and surfaces must be clean, free of dust and moisture before application. In a nutshell it's down to making sure the pipe is wiped and cleaned before the insulation block is installed to stop any reaction.

