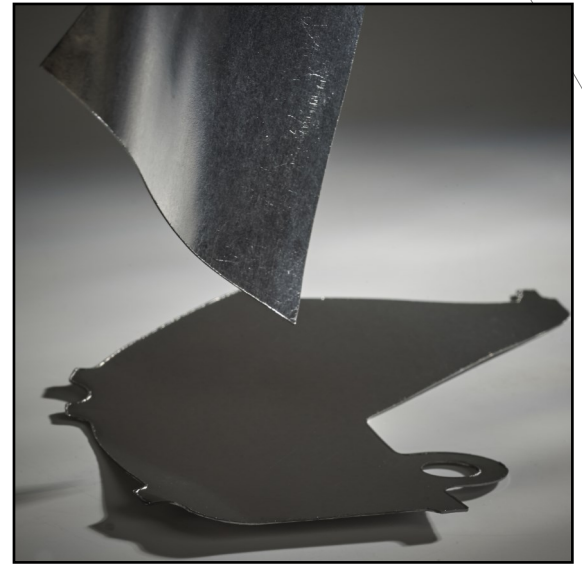


C75

Graphite

C75 is a highly dense, natural graphite that undergoes rolling or pressing to form films or sheets without the need for binding material. It possesses outstanding characteristics, making it a particularly attractive substitute for traditional interface materials due to its cost-effectiveness. Notably, the anisotropy of the thermal properties, potentially resulting in weight reductions of up to 30% compared to conventional materials made out of copper or aluminum. This quality makes C75 appealing for use in headspreader applications. Furthermore, its suitability for vacuum environments or extreme temperatures ranging from -40 to 500 °C further expands its potential applications.



Properties	Unit	C75	Test Method
Base material		Natural graphite	
Color		Black	Visual
Thermal Properties			
Thermal conductivity along	W/mK	>300	ASTM D5470
Thermal conductivity through	W/mK	7.5	ASTM D5470
Operating temperature	°C	-40 up to 500	
Thermal resistance	K/W	0.08	Factory test
Thermal Impedance	°Cmm ² /W	34	

Ordering example:

C75-0150-A0

C = Carbon / 75 = 7.5W/mK / 0150 = 0.15mm

A0 = without adhesive / A1 = with adhesive on one side

Graphite

Properties	Unit	C75	Test Method
Base material		Natural graphite	
Color		Black	Visual
Thermal Properties			
Thermal conductivity along	W/mK	>300	ASTM D5470
Thermal conductivity through	W/mK	7.5	ASTM D5470
Operating temperature	°C	-40 up to 500	
Thermal resistance	K/W	0.08	Factory test
Thermal Impedance	°Cmm ² /W	34	
Electrical Properties			
Breakdown Voltage	kV	Conductive	ASTM D149
Electrical resistance z	Ωμm	700-800	
Electrical resistance z (x/y)	Ωμm	7-9	
Mechanical Properties			
Tensile strength	N/mm ²	10.0	ASTM D412a
Hardness	Shore D	25 - 35	ASTM D2240
Elongation	%	5	ASTM D412a
Density	g/cm ³	> 1.6	
Total mass loss (TML)	Ma.-%	0.01	ASTM E595
Physical Properties			
Standard thicknesses	mm	0.15 up to 0.29	
Flame rating		V0	UL94

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the

scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller