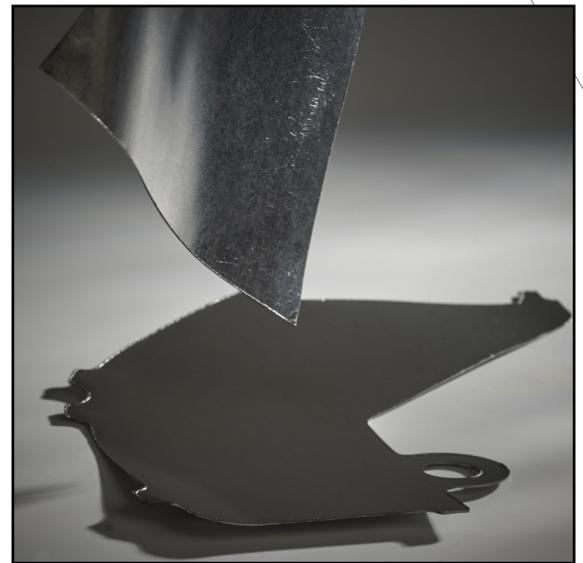


C75

GRAPHITE SHEET MATERIAL

C75 is a highly dense, natural graphite which is rolled or pressed to films or sheets without binding material. C75 has exceptional properties and is therefore used especially as a cost-effective alternative to conventional interface material. Especially, the anisotropy of the thermal properties, linked with a possible weight saving up to 30% compared to conventional materials made out of copper or aluminum, makes the C75 interesting for head spreader applications. In addition, applications in vacuum or even at high temperatures (-40 up to +500 °C) are possible.

C75 can be applied with an adhesive coating.



Properties	Unit	C75
Base material		Natural graphite
Tested thickness	mm	0.29
Color		Black
Thermal Properties		
Thermal conductivity along material (X/Y)	W/mK	300
Thermal conductivity through material (z)	W/mK	7.5
Operating temperature	°C	-40 up to +500
Thermal resistance R_{th}	K/W	0.08
Thermal Impedance R_{ti}	°Cmm ² /W	34

Ordering example:

C75-A0

C = Carbon / 75 = 7.5W/mK

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

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Thermal Impedance R _{ti}	°Cmm ² /W	34
Electrical Properties		
Breakdown Voltage U _{d, ac}	kV	Conductive
Electrical resistance z	Ωμm	700-800
Electrical resistance z (x/y)	Ωμm	7-9
Mechanical Properties		
Tensile strength	N/mm ²	10
Hardness	Shore D	25 - 35
Elongation	%	5
Density	g/cm ³	> 1.6
Total mass loss (TML)	Ma.-%	0.01
Physical Properties		
Standard thicknesses	mm	0.15 up to 0.29
Flame rating	UL94	V0

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