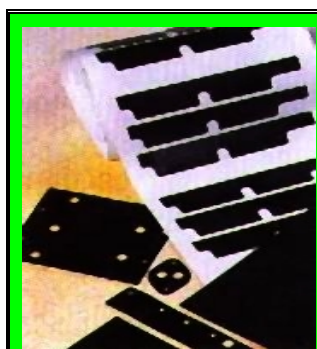


CM20

	Material	Thermal Impedance °C/W (Area:TO3)	Volume Resistivity Ω -cm	Temperature Range
Property	Compressed graphite	0.07	0.002	-200°C to +500°C
Test Method	-	ASTM D5470	ASTM D991 (Mod)	-



Description

CM20 is a dry alternative to thermal compound. Its composition is 98% graphite and by nature offers both thermal and electrical conductivity.

Low thermal resistance means that CM20 can be used in high power applications where maximum heat transfer is essential. High electrical conductivity is a natural property because of the graphite structure. CM20 provides a consistent low resistance path between transistor and heatsink.

Contamination is eliminated because CM20 does not outgas or migrate like thermal compounds. It does not shrink or dry out.

Ordering information	Key performance Properties
<p>Standard sheet sizes are 300mm x 300mm each.</p> <p>Adhesive backed CM20-AC-30x30</p> <p>Non Adhesive CM20-NA-30x30</p> <p>An extensive range of pre-cut profiles is also available, see additional datasheet for details.</p>	<ul style="list-style-type: none"> Extremely low thermal resistance. Fills air gaps between components up to 7% of the pads thickness Remains resistant to cleaning agents , and does not support organic growth No known deterioration over time. Easily cut at room temperature into most configurations using steel rule dies or sharp blades. Low tooling costs for custom profiles. Electrically conductive.

Technical Information	Property	Test Standard
Part prefix code	CM20	
Thickness (mm)	0.200 ±0.02	
Thermal Conductivity $Wm^{-1}K^{-1}$	3.85	MIL-I-49456A
Thermal resistance per cm^2	0.45°C/W	
Hardness	84 ±5	Shore Micro
Tear Resistance kN/m	8	ASTM D624
Tensile Strength MPa	3.6	ASTM D412
Dielectric Constant 1000Hz	N/A	ASTM D150
Elongation %	1	ASTM D412
Colour	Dark grey	
Comparative Tracking Index	N/A	
Temperature range	-200°C to 500°C	
Datasheet Issue	06	

For further information on this or any other thermal material call our help line on ++49-(0)89-15 81 26-0 and visit our website at www.infratron.de