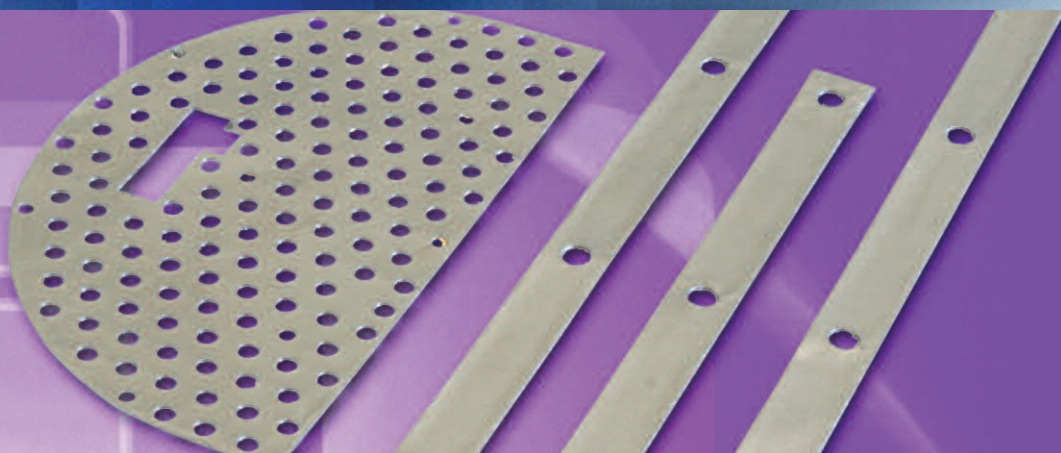


## GRAPHITE FOIL



GRAPHITE FOIL | AK20 RANGE

THR

### DESCRIPTION:

Arka Technologies Graphite AK20, is a high grade graphite foil which has good oxidation resistance at elevated temperatures of over 400°C. It is made from pure expanded graphite. The structure allows it to conform exactly to the surface thus maximising heat transfer.

### FEATURES:

- Very Low Thermal resistance
- Foil thickness of 0.2mm to 2mm are available
- Sheets Sizes 12"x 12" or 24"x 24"
- Die cut or Water Jet to specific configurations
- Densities available 700 Kg/m<sup>3</sup> – 1100 Kg/m<sup>3</sup>
- Special Grades available
- 99% Carbon

Part No.	Type
XXXX-NA	No Adhesive
XXXX-AD	Adhesive

### TYPICAL PROPERTIES

Property*	Standard	Unit	Data
Thickness		mm	0.2 ; 0.35 ; 0.5 ; 0.75 ; 2.0
Tolerance on Thickness		mm	±0.03
UL Flamability Rating			
Temperature Range	Neutral & Reducing	deg C	-240 to 3000 deg
Thermal Conductivity X-Y	-	W/m.k	140
Thermal Conductivity Z	-	W/m.k	5
Volume Resistivity	-	Ohm cm	<0.05
Density	-	g/cm <sup>3</sup>	1
Tolerance on Density		%	±6
Compressibility	ASTM F36/A	%	33-55
Recovery	ASTM F36/A	%	3-5
Tensile Strength	ASTM F152	MPa	>4.0
Leakage rate	DIN 3535	Mg/m.s	<0.08
Compression Factors	DIN 28091		
KSW	-	%	33-55
KRW	-	%	3-5
WSW	-	%	<4
WRW	-	%	3-4
Resistance Strength	DIN 52913	MPa	-
Sulphur Content	ASTM C816	P.P.M	1300
Chloride Content	ASTM F1277	P.P.M	<50
Fluoride Content	-	-	<30
Carbon Content	JB/T9141.6	%	99
Ash Content	ASPM C516	%	<1.0

Thicknesses Available mm	Density (g/cc)
0.2	0.7 and 1.1
0.35	0.7 and 1.1
0.5	0.7 and 1.1
0.75	0.7 and 1.1
1	0.7 and 1.1
1.5	0.7 and 1.1
2	0.7 and 1.1

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