



#### The Right Choice for:

## Carbon & Graphite Materials

Our carbon and graphite materials offer;

- · Excellent chemical compatibility
- Low coefficient of expansion
  - High conductivity
  - Low wear rates for seals and bearings running in liquids
    - These grades are able to withstand higher temperatures

### Advanced Polymers

Our advanced polymers, are a range of modified PTFE materials able to operate at higher temperatures and pressures than traditional filled PTFEs in a broad range of pump, compressor and valve applications.

- This range covers both lubricated and non lubricated applications in a multitude of gases
  - Their low porosity and lubricious nature lend themselves perfectly to sealing applications
    - With the addition of various fillers higher loads and speeds can be achieved for bearing applications in chemical pumps resulting in greater dimensional stability and lower wear rates
      - For dry gas/cryogenic applications please refer the ACM700 brochure

# Polyimide Materials

Polyimide materials unlike our carbon and graphite based materials have

- Extremely low electrical and thermal conductivity
- Ideal for higher temperature sealing and bearing applications
  - Can also be used in dry, wet or mixed running conditions
    - These materials also exhibit good friction and wear properties
      - Excellent impact resistance

#### Resin Bonded Materials

Resin bonded materials offer,

- Excellent dry running characteristics
  - For wet running conditions they should be used at lower operating speeds/loads
    - Good thermal conductivity
      - Good chemical resistance
        - Low co-efficient of expansion
        - Suitable for press to size components for higher volume production runs

# Grade Application Guide - Carbon & Graphite

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Me 501	Resin Bond	kd \	1.70	55	600	<1%	200			
Me502	Resin Bon		1.65	58	650	\ d% \	200			
Me511	Resin Bo		1.69	65	\ 600	\ <bi \<="" td=""><td>190</td></bi>	190			
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Grade Application Guide - PTFE Filled

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