

## PFA

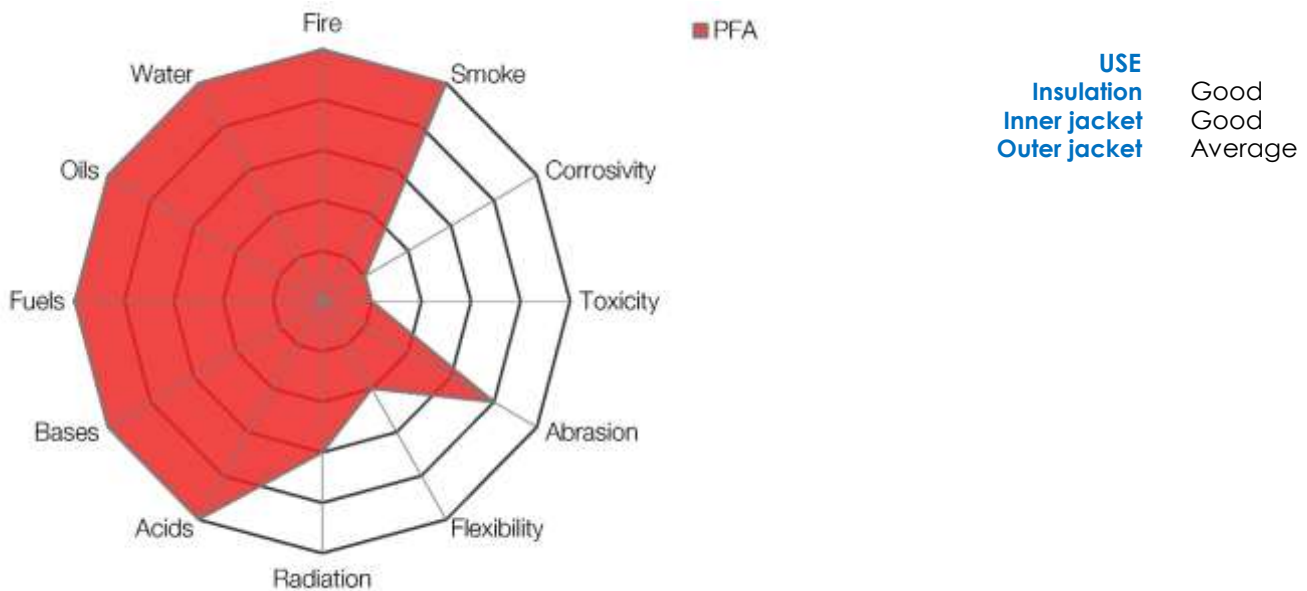
-200° / +260° C

PFA (Perfluoro alkoxy alkanes) shares many of PTFE's exceptional properties but with the added benefit that it can be processed by normal means, allowing for longer lengths and larger sizes that are possible with PTFE. PFA can also claim the best electrical properties with a low dielectric constant of 2.1, and with very good chemical properties; excellent fluid resistance and the ability to be processed with all standard copper conductors, only its relatively high cost prevents it from being more widely used. Although it is a halogenated material, it is highly flame retardant and generates very little smoke under fire conditions. PFA is also ideal for use where low out-gassing is required.

### Electrical

Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz 100 MHz	2.1 2.1
Dielectric strength	ASTM D 149	0.25 mm film 3.2 mm sheet	> 80 kV/mm 20 kV/mm
Dissipation factor	ASTM D 150	0.1 kHz 100 MHz	0.0001 0.0003
Volume resistivity	Internal	+90 °C	10 <sup>16</sup> Ω x cm

### Application chart



**Important:** IMCAVI has compiled the information contained herein from what it believes to be accurate and factual sources as of the date printed. Data is based on typical values and might vary depending on cable construction and processing method. Any changes in the data will be made without notification.

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