

# Graflex

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## *A Commitment to Excel*

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Used as a filler for Maxiflex spiral wound gaskets, Graflex combines a choice of metal with the excellent thermal and chemical durability properties of Graphite, thus giving the gasket high flexibility and superb sealing characteristics.

GRAFLEX is a flexible Graphite material, which is non-toxic and does not contain any respirable fibres. It is available in two grades, standard 99% pure or nuclear 99.9% pure without any additives.

### Physical Properties

Melting Point:	3650°C
Tensile Strength:	4.5 MN/m <sup>2</sup> (800 psi)
Ash Content:	1% (standard)
Leachable Chloride ion content:	50 p.p.m. (certifiable on requested)
Leachable Fluoride ion contents:	50 p.p.m. (certifiable on requested)
Temperature range:	
Inert or Reducing atmospheres:	Cryogenic to 3000°C
Oxidising atmospheres:	Cryogenic to 550°C
Gas Permeability:	10 <sup>-5</sup> cm <sup>3</sup> /s
Specified Electrical Resistance:	
Parallel to surface:	
Perpendicular to surface:	
Thermal Conductivity:	
Parallel to surface:	220 W/m <sup>2</sup> K
Perpendicular to surface:	7 W/m <sup>2</sup> K
Thermal Shock Resistance:	Excellent