



# GRAPHITECH

Solutions graphite, carbone, composites

## Physical properties

Maximum service temperature (vacuum or inert gas)

Carbone Vitreux grade K 1000 ° C

Carbone Vitreux grade G 3000 ° C

Density

Carbone Vitreux grade K 1.54 g/cm<sup>3</sup>

Carbone Vitreux grade G 1.42 g/cm<sup>3</sup>

Open porosity

Carbone Vitreux grade K 0%

Carbone Vitreux grade G 0%

Permeability coefficient

Carbone Vitreux grade 10<sup>-11</sup> cm<sup>2</sup>/s

Carbone Vitreux grade 10<sup>-9</sup> cm<sup>2</sup>/s

Vickers hardness

Carbone Vitreux grade K 340 HV

Carbone Vitreux grade G 230 HV

Flexural strength<sup>1)</sup>

Carbone Vitreux grade K 210 MPa

Carbone Vitreux grade G 260 MPa

Young's modulus<sup>2)</sup>

Carbone Vitreux grade K 35 GPa

Carbone Vitreux grade G 35 GPa

Compressive strength<sup>1)</sup>

Carbone Vitreux grade K 580 MPa

Carbone Vitreux grade G 480 MPa

Specific electrical resistance (30°C)

Carbone Vitreux grade K 50 Ωμm

Carbone Vitreux grade G 45 Ωμm

Thermal conductivity (30°C)

Carbone Vitreux grade K 4.6 W/(Km)

Carbone Vitreux grade G 6.3 W/(Km)

Median linear coefficient of expansion (20-200°C)

Carbone Vitreux grade K 3.5·10<sup>-6</sup> 1/K

Carbone Vitreux grade G 2.6·10<sup>-6</sup> 1/K