

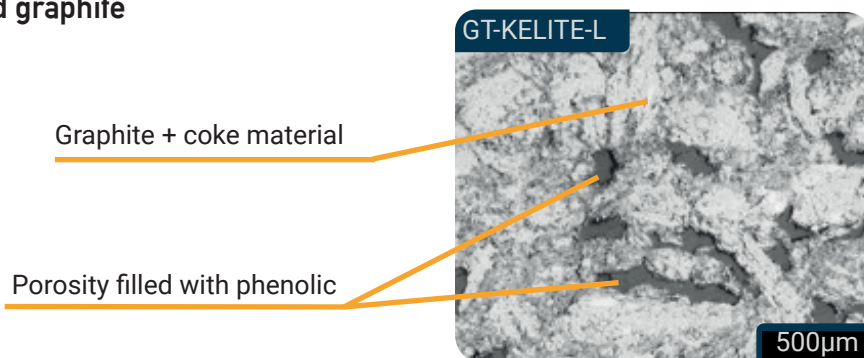


Material of Construction

GT-KELITE-L

Graphite with standard grains size, impregnated with phenolic resin crosslinked at high temperature.

Micrography of our impregnated graphite



Operating conditions	Remark
Pressure	Up to 10barg (related to design adopted)
Tempreture	Up to 180 °C
Suitable corrosive medias	Adapted to most common acid media (HCl, H2SO4, H3PO4, organic acid), solvents, oils and organics medias. Not adapted to oxidative media (HNO3, Cl2, and bases medias (pH>11)). We study your operating conditions (concentration, temperature, pressure) for selection of our grade of material.
Cycling of temperature	Avoid cycling of temperature and thermal shock
Thermal conductivity	Medium thermal conductivity.

Physical properties	GT-OXYFLON
Graphite grain size (mm)	0.8 - 0.5
Impregnant type	PHENOLIC resin
Density	1.82
Flexural strength (MPa – ASTM C651)	27.0
Compression strength (MPa – ASTM C695)	87.0
Tensile strength (MPa – ASTM)	20.0
Young modulus (GPa – ASTM C559)	10.0
Thermal conductivity (W/m.K)	35.0
Codification AD-M 2000 N2	G 20-30-160

Other similar grade of materials available ;

GT- KELITE+ : Same impregnation process with economical fine grain structure graphite.

GT-TOYO KELITE+ : Same impregnation process with TOYO TANSO graphite. Highest mechanical strength and thermal shock resistance.