



Material of Construction

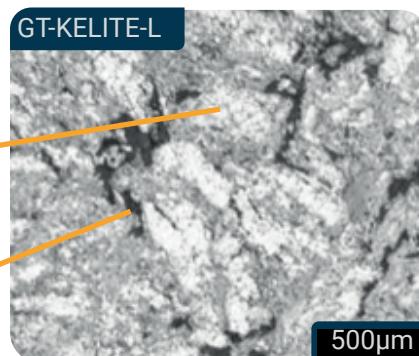
GT-KELITE+

Graphite impregnated with phenolic resin crosslinked at high temperature.

Micrography of our impregnated graphite

Graphite + coke material

Porosity filled with
phenolic RESIN



Operating conditions	Remark
Pressure	Up to 20barg (related to design adopted)
Tempreture	Up to 200 °C (Special treatment for 220 °C
Suitable corrosive medias	Adapted to most common acid media (HCl, H2SO4, H3PO4, organic acid), solvents, oils and organics medias. Limited conditions to oxidative media (HNO3, Cl2, and bases medias (pH>12)). We study your operating conditions (concentration, temperature, pressure) for selection of our grade of material.
Cycling of temperature	Adapted to cycling of temperature and improved resistance to thermal shock
Thermal conductivity	Good thermal conductivity.

Physical properties	GT-OXYFLON
Graphite grain size (mm)	0.020 - 0.008
Impregnant type	PHENOLIC resin
Density	1.89
Flexural strength (MPa – ASTM C651)	49.0
Compression strength (MPa – ASTM C695)	130.0
Young modulus (GPa – ASTM C559)	11.0
Thermal conductivity (W/m.K)	105
Codification AD-M 2000 N2	G 29-09-230

Other similar grade of materials available ;

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