



Material of Construction

GT-OXYFLON

Graphite impregnated with PTFE resin without solvent.

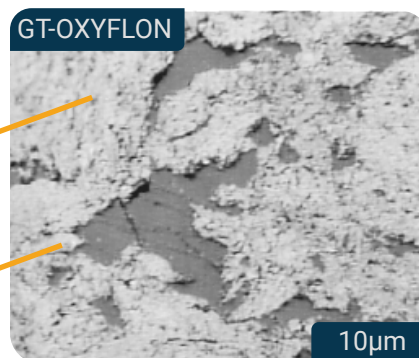
Extended corrosion resistance for oxidative media where usually graphite cannot be adopted.

World unique process of material treatment.

Micrography of our impregnated graphite

Porosity filled with carbon

Graphite + coke material



Operating conditions	Remark
Pressure	Up to 24barg (related to design adopted)
Temperature	Up to 300 °C
Suitable corrosive medias	Adapted to most common acid media (HCl, H ₂ SO ₄ , H ₃ PO ₄ , organic acid), solvents, oils and organics medias. Extended resistance to very oxidative media (HNO ₃ , Cl ₂ , and bases medias (pH>12), peroxides, sulfuric acid high concentration). We study your operating conditions (concentration, temperature, pressure) for selection of our grade of material.
Cycling of temperature	Adapted to cycling of temperature and good resistance to thermal shock. Can handle alternatively cooling and heating mode.
Thermal conductivity	Good thermal conductivity.

Physical properties	GT-OXYFLON
Graphite grain size (mm)	0.043-0.009
Impregnant type	PTFE resin
Density	1.92
Flexural strength (MPa – ASTM C651)	32.0
Compression strength (MPa – ASTM C695)	91.0
Young modulus (GPa – ASTM C559)	11.0
Thermal conductivity (W/m.K)	105
Codification AD-M 2000 N2	G 17-00-250

Other similar grade of materials available ;

GT-TOYO FLON : Same impregnation process with TOYO TANSO graphite. Higher mechanical strength.

GT-FLON : grade with economical fine grain structure.