

GRAFKOTE® U.S. PATENT No. 5,198,063



Construction:

GRAFKOTE is a new generation of GRAFOIL flexible graphite gasket material with a strong, thin polymer coating. The GRAFOIL flexible graphite sheet is manufactured with no binders, therefore giving it the excellent thermal stability, thermal conductivity and chemical inertness inherent to graphite. In addition several complimentary features include compactability and resiliency. The thin polymer coating enhances the product handleability and durability. The unique properties of GRAFOIL flexible graphite along with the strength of the polymer coating make GRAFKOTE an excellent gasketing material. GRAFKOTE can be used for applications at temperatures up to 400°C (750°F).

Typical Application:

Valves, Pumps, Pipe Flanges/ASME/API/DIN Flanges, Glass-lined Equipment, Steam Traps, Heat Exchangers, Compressors.

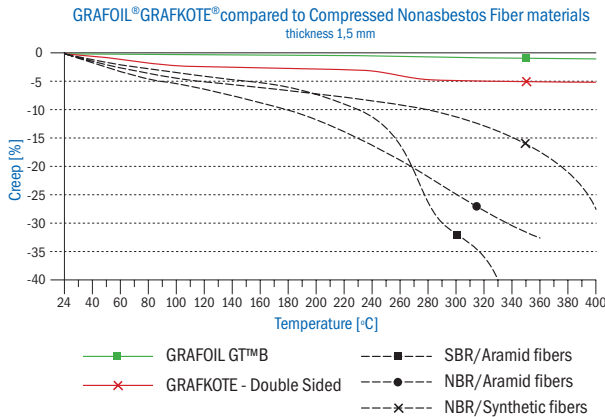
Advantages:

Compatible with a wide range of chemicals, superior bolt load retention at elevated temperatures, no hot retorquing necessary, superior sealability under low flange loads, maximum continuous use temperature 400°C (750°F), high surface conformability, no shelf life limit, material availability in rolls allows for maximum material utilization, low leachable chloride, improved handleability and durability, cost effective, easily cut. **All the advantages of GRAFOIL flexible graphite at a price comparable to compressed sheet.**

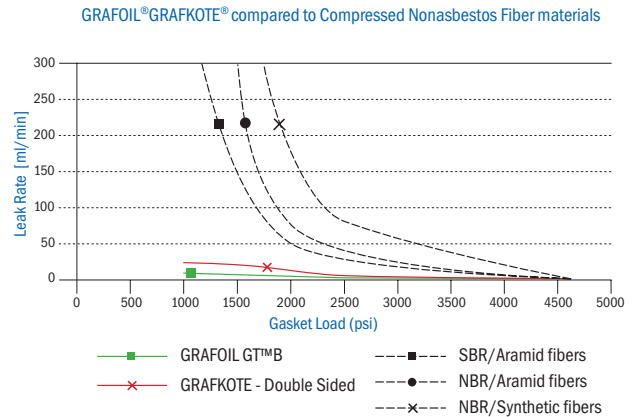
Typical properties:

Dimensiones delivered:	sheets 1 × 1 m, thickness 1,5; 2,0 mm
Peak working temperature (Oxidizing Atmosphere):	+450 °C max
Peak working temperature (Steam):	+650 °C max
Peak working temperature (Neutral or Reducing Atmosphere):	+850 °C max
Peak working pressure:	80 bar
Specific density of GRAFOIL®:	1,12 g/cm³
Compressibility ASTM F-36 at 34,5 MPa:	40 %
Back spring ASTM F-36 after 34,5 MPa:	15 %
Minimal carbon content:	98 %
Max. sulphur content:	< 500 ppm
Leachable SO₄ content:	< 10 ppm
Leachable chlorides ASTM F-1277:	10 ppm
Min. specific pressure σ_{vu}	20 MPa
Max. specific pressure σ_{vo}	110 MPa
Max. specific working pressure σ_{bo}	100 MPa
„m“ ($\sigma_{bo} = p \times m$)	1,3

CREEP RELAXATION TEST (BSI-F125)



Modified DIN 3535 Sealability



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