

BLACK-MAX® LG

Material Composition and Application

Laminated Graphite - Flexible graphite is a unique sealing material that is resistant to almost all media, with the exception of strong oxidizers such as highly concentrated nitric or sulfuric acid and molten salts. It is also highly compressible for establishing a good seal against the flange and will not cold flow. BLACK-MAX® LG is suitable for sealing steam as well as inorganic and organic bases, solvents, oils and fuels.

BLACK-MAX® SSC

Material Composition and Application

Laminated Graphite with Stainless Steel Core - With the same sealing properties as LG, BLACK-MAX® SSC 1/8" and below are reinforced stainless steel foil for additional tensile strength and improved handling characteristics. Because the foil insert is so thin, this material is still very easy to die cut or hand fabricate. *BLACK-MAX SSC .200" thick comes with two .002" stainless steel foil inserts and requires specialty tooling to fabricate components.

BLACK-MAX® SSTC

Material Composition and Application

Laminated Graphite with Stainless Steel Tang Core - BLACK-MAX® SSTC is our standard high purity flexible graphite that is mechanically bonded to both sides of 0.004" perforated (tanged) stainless steel. Because of the thickness of the tang insert, this material is not recommended for hand fabricating gaskets. Suitable for sealing steam as well as inorganic and organic bases, solvents, oils and fuels.

Temperature: -400° F (-240° C) to +850° F (+454° C) in atmosphere, +1,200° F (+650° C) in steam
Pressure: 2,000 psig (70 bar) • **P x T:** 175,000 (6,000) 1/4" • **M Factor:** 2 (Smooth Flange Surface)
Y Stress: 900 psi (6 MPa) (Smooth Flange Surface) • **Maximum Gasket Load:** 24,000 psi (165 MPa)

PROPERTIES	LG	SSC	SSTC
Carbon Content:	>=99%	>=99%	>=99%
Ash Content:	<1%	<1%	<1%
Sulphur Content:	<=1200 PPM	<=1200 PPM	<=1200 PPM
Chlorine Content:	<=35 PPM	<=35 PPM	<=35 PPM
Creep Relaxation:	<5%	<5%	<5%
Ignition Loss:	</=1%(450°C/h)	</=1%(450°C/h)	</=1%(450°C/h)
Compressibility:	35-55%	40-50%	30-40%
Recovery:	10-15%	10-15%	15-30%
Tensile Strength: (Graphite)	>=4.0MPa	>=4.0MPa	>=4.0MPa

- Impermeable to Gases and Liquids
- No Measurable Cold Flow
- Will Not Age or Harden
- Resistant to Most Chemicals
- Highly Compressible
- Easy to Cut and Fabricate

All information and recommendations given in this brochure are correct to the best of our knowledge. Since conditions of use are beyond our control, the information provided only serves as a guideline. Users must satisfy themselves that products are suitable for the intended process and uses. We reserve the right to change product design and properties without notice.

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