SELCO SEAL® GASKETS
SERVICING THE WORLD

Sealing Elements

Type	Min-Max Temp (°F)	Min-Max Temp (°C)	
Flexible Graphite	-328° to 850°	-200° to 450°	*In Air*
	-328° to 1200°	-200° to 650°	*In Steam*
	-328° to 5432°	-200° to 3000°	*In reducing atmosphere*

®SIGRAFLEX Grade B flexible graphite with 98.0% minimum carbon content. No binders, fillers or resins.

Works in a wide range of pressure changes, fluids with pH range of 0-14 (except strong oxidizers).

Excellent weather and aging characteristics. Low creep relaxation, seals easily under moderate bolt loads.

PTFE	-500° to 580°	-260° to 300°

PTFE is a synthetic fluoropolymer, more commonly recognized by its DuPont brand name Teflon. Sealing Corporation uses a Virgin a PTFE, which is basically PTFE without any fillers.

Note that continuous operating temperatures depends on the respective stress factors. In practical terms, this means that, under moderate mechanical stress, PTFE may be exposed to temperatures ranging from -200°C to +260°C.

Virgin PTFE is unique among plastic compounds in its ability to function in a wide range of thermal applications, virtually universal chemical resistance, light and weather resistant, resistance against hot water vapor, excellent sliding properties, anti-adhesive behavior, non-combustible, good electric and dielectric properties, no absorption of water, physiologically harmless and FDA approved for use in food industry applications.

Adverse properties are its cold flow behavior, relatively low wear resistance, low resistance to high energy radiation, and poor adhesive behavior.

Fiberfrax		-350° to 2300°	-212° to 1260°

Fiberfrax® 970 paper is made from high purity washed Fiberfrax ceramic fibers. Consisting primarily of an alumino-silicate fiber in a non-woven matrix with a latex binder system.

Fiberfrax® is characterized by low thermal conductivity, low heat storage, excellent thermal shock resistance, light weight and superior corrosion resistance.

MICA	Phlogopite mica content min 90%; Silicone Binder content max 10%.	Up to 1832°	Up to 1000°

Cogemica® Hi-Temp has been developed for the production of high temperature resistant gaskets. It does not contain any asbestos and is inert to most chemical substances.

MICA is a material containing a high percentage of phlogopite mica paper impregnated with a silicone binder. Mica, an aluminosilicate of mineral origin, has a lamellar and non-fibrous structure representing a satisfactory alternative to asbestos.

This material gives MICA its thermal characteristics - weight loss at 800°C (1472°F) less than 5% - and its chemical resistance to solvents, acids, bases and mineral oils.

Mica has good compressive strength. It behaves well in the presence of tensile and bending stresses. It has a high modulus of elasticity.

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