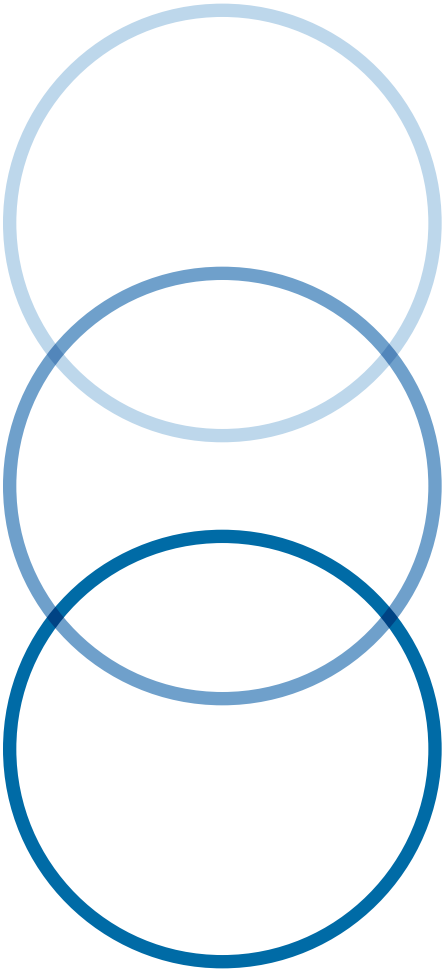
BAL SEAL ENGINEERING
BY KAMAN

Custom components that drive tomorrow's technologies.®



Graphite Filled Polytetrafluoroethylene (G200HT)

Material Data Sheet
M-76 (Rev. 00, 07-31-25)

19650 Pauling
Foothill Ranch, CA
USA 92610-2610
O +1 949 460 2100
F +1 949 460 230

VIDA Building, 1st Floor
Kabelweg 57
1014 BA Amsterdam
The Netherlands
O +31 20 638 6523
F +31 20 625 6018

Suite 701, Chinachem
Century Tower
178 Gloucester Road,
Wanchai, Hong Kong
O +852 28681860
F +852 22956753

www.balseal.com

Overview

G200HT is a graphite-filled Polytetrafluoroethylene (PTFE) formulated for use in light to moderate service conditions. It performs well in both static and dynamic service. Characteristics of this material include:

- Compatibility with soft mating surfaces (suggested shaft hardness of 20 HRC or above)
- Low coefficient of friction with outstanding wear resistance in dry, liquid, and steam environments
- Low gas permeability and zero water absorption

As a jacket material, G200HT effectively seals against a wide range of liquids and gases, in temperatures ranging from –320 °F to +500 °F (–196 °C to +260 °C).

Chemical Compatibility

G200HT exhibits excellent compatibility with most fluids and gases, except for some acids (such as sulfuric, nitric, and hydrofluoric). For more details, reference Bal Seal Technical Report TR-60A, *Chemical Compatibility Guide*, in the technical library section of our website at www.balseal.com.

FDA Compatible

G200HT is not FDA compliant or compatible. Bal Seal Engineering defines its compositions as “FDA Compliant” if each of the ingredients in the composition has been found by the FDA to be “safe for use in food contact,” or “acceptable for use in food contact.” This material contains no ingredients listed in the California Code of Regulations Hazardous Substances List.

Mechanical Properties

Typical Mechanical Properties of G200HT at Ambient Temperatures

Property	Standard	Measure
Tensile Strength	ASTM D1708	2245 psi (16 MPa)
Elongation	ASTM D1708	50%
Hardness	ASTM D2240	62 Shore D

Color

Black

Typical Applications

Rotary or reciprocating sealing service in wet and dry environments, and against softer mating surfaces such as aluminum, mild steel, or stainless steel. Typical applications may include, but are not limited to, the following examples.

Oil and Gas Industry

- Downhole tool seals with softer metal components
- Wellhead equipment seals with bronze or softer bearing surfaces

Water Treatment Equipment

- Pump and valve seals in desalination plants
- Filtration system seals

Textile and Printing Industries

- Roller seals in paper mills
- Dye application equipment seals
- Printing press seals

Other Resources

For more information, contact a technical sales representative, visit our website at www.balseal.com, or e-mail us at sales@balseal.com.