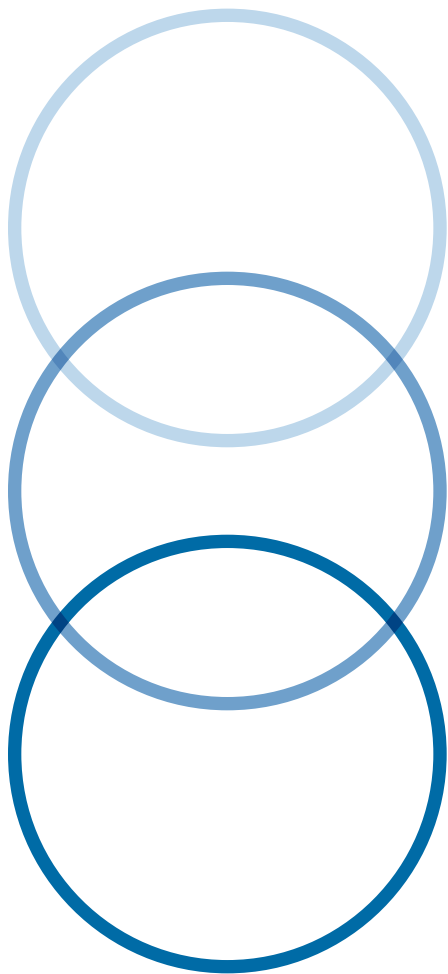




## Graphite Filled Polytetrafluoroethylene (G200HT)

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

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## 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](http://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](http://www.balseal.com), or e-mail us at [sales@balseal.com](mailto:sales@balseal.com).

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