

Polymer-Filled PTFE Material (SP83HT) for low friction performance applications

<u>Description</u> SP83HT is a special-purpose, low friction polymer-filled PTFE sealing material made for use in contact with shafts and housings made from 300 series stainless steel, aluminum, and other soft metallic or plastic materials. SP83HT has very low abrasion to mating parts, and it is designed primarily for sealing moisture and gases at moderate speeds and low pressures. It retains its sealing properties in temperatures ranging from -320F° dry to +475°F (196C° to +246°C).

<u>Chemical Compatibility</u> SP83HT exhibits excellent compatibility with most fluids and gases, but it is not recommended for use with sulfuric and nitric acids, alkali metals, chlorine fluoride, lithium, potassium and sodium at high temperatures.

<u>Mechanical Properties</u> The mechanical properties of **SP83HT** at ambient temperatures are: Tensile strength ASTM D638 4700 psi (330 kg/cm²) Elongation ASTM D638 360% Coefficient of Friction ASTM D1894 0.06

Color

Dark gray

Advantages of SP83HT

- Minimizes countersurface wear
- Lower coefficient of friction than Bal Seal's comparable SP-45 polymer-filled PTFE material
- Low torque while maintaining sealing ability in air or dry gases

Other Information

To learn more about this material, please contact your Bal Seal technical sales representative.