BAL SEAL ENGINEERING

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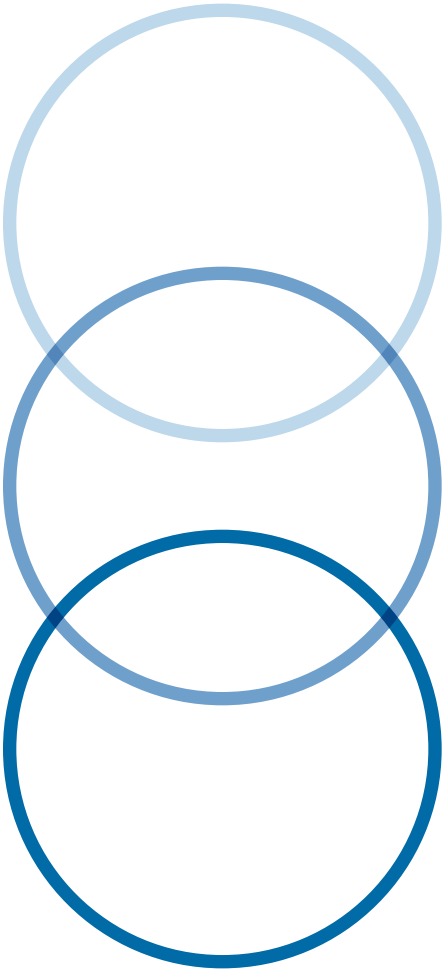

Polyester-Filled Polytetrafluoroethylene (SP36)

Material Data Sheet
M-58 (Rev. 00, 05-21-26)

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Overview

SP36 is a polyester-filled PTFE compound. It exhibits superior heat and wear resistance as compared with Virgin PTFE and graphite-filled compounds. This low friction compound is exceptionally well-suited for rotary service equipment applications. Since SP36 will not wear metal mating surfaces, it is recommended for low to high speed applications running against soft metals. SP36 is suggested for use in applications with service temperatures ranging from -320° F to +475° F (-196° C to +246° C).

Chemical Compatibility

SP36 is compatible with most fluids and gases. 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

SP36 is not FDA compliant or compatible. This material contains no ingredients listed in the California Code of Regulations Hazardous Substances List.

Mechanical Properties

Typical Mechanical Properties of SP36 at Ambient Temperatures

Property	Standard	Measure
Tensile Strength	ASTM D638	3000 psi (20.7 MPa)
Elongation	ASTM D638	350%

Color

Light tan to brown (color variations may occur during processing). The supplied parts may contain random specks, which are normal and will not affect the material properties.

Advantages of SP36

- Suitable for rotary and reciprocating applications, not recommended in aqueous and steam environment
- Low wear rate, high temperature resistance
- Minimal wear to soft countersurfaces
- Non-conductive

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.