

Polyimide-Filled Polytetrafluoroethylene (SP191)

SP191 is a polyimide-filled PTFE compound designed for gas compressor systems and oxygen intensifier systems. This compound exhibits low friction, minimal wear, and it is well-suited for rotary and reciprocating equipment applications. **SP191** operates well against soft mating surfaces like aluminum, mild steel, brass and plastics, and it is ideal for stop-start applications to eliminate stick-slip. **SP191** is suggested for use in applications with service temperatures ranging from -400 °F to +550 °F (-240 °C to +287 °C).

Chemical Compatibility

SP191 has excellent chemical compatibility. This material is compatible with most fluids and gases.

(For more compatibility information, request report TR-60A, or go to <http://www.balseal.com/techlib>. Select Technical Reports (Login Required), then select TR-60A Chemical Compatibility Guide)

FDA Compliance

SP191 is an “FDA compliant” material for use in food contact. It meets FDA Regulation 21 CFR 177.1520, USDA, and USP XXIII, Class VI requirements.

(**FDA Compliant:** Bal Seal defines “FDA Compliant” as materials that have been found by the FDA to be “safe for use in food contact” or “acceptable for use in food contact.”).

Mechanical Properties

Tensile Strength (typical)	2800 PSI (19 MPA)
Elongation (typical)	225 %

Color

Tan (color variations may occur during processing)

Advantages of SP191

- Low Friction
- Extremely low seal wear
- For use in contact with soft metal surfaces
- Broad useful temperature range (-400 °F to +550 °F), (-240 °C to +287 °C).

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

It is essential that the customer run evaluation testing under actual service conditions with a sufficient safety factor to determine if the proposed, supplied or purchased Bal Seal Engineering products are suitable for the intended purpose and to confirm expected results. Bal Seal Engineering makes no warranty, express or implied, regarding Bal Seal Engineering products or of the information contained herein, including but not limited to, warranties of merchantability, performance, and fitness for a particular use or purpose. Bal Seal Engineering shall not be liable for any loss or damage of any kind or nature that may result from the use of, reference to, or reliance on, the information contained herein, including, but not limited to, consequential, special (including loss of profits) direct, indirect, incidental, or similar damages, even if Bal Seal Engineering has been advised of the possibility of such damages. © 2013 Bal Seal Engineering, Inc. All rights reserved. M 64 Rev. A (623-75) 12-2-13

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