

| Materials Selection Guide | | | | | | | | | | | | | | | | | |
|---|--|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|
| RULON® GRADES | Grade | AR | LR | J | 641 | W2 | 123 | 488 | 957 | XL | F | 142 | 945 | 1045 | 1337 | 1410 | 1439 |
| | Color | MAROON | MAROON | GOLD | WHITE | BLACK | BLACK | TURO. | GREEN | TAN | GREEN | TURO. | BLACK | GOLD | TAN | GOLD | WHITE |
| PERFORMANCE | Max Load "P" (psi) MPa | 1,000 6.9 | 1,000 6.9 | 750 5.2 | 1,000 6.9 | 1,000 6.9 | 1,000 6.9 | 1,000 6.9 | 1,000 6.9 | 1,200 8.3 | 1,000 6.9 | 1,000 6.9 | 1,200 8.3 | 1,000 6.9 | 1,000 6.9 | 750 5.2 | 1,000 6.9 |
| | Max Speed "V" (fpm) m/s | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 | 400 2.0 |
| | Max "PV" (psi-fpm) (MPa • m/s) | 10,000 0.35 | 10,000 0.35 | 7,500 0.26 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 10,000 0.35 | 7,500 0.26 | 10,000 0.35 |
| MATING SURFACE STEEL & STAINLESS STEEL | Rb 25 & higher | | | X | X | X | X | X | X | X | X | | | X | X | X | X |
| | Rc 25 & higher | X | X | | | | | | | | | X | X | | | | |
| | Painted metal and porcelain | | | | | | | X | X | | | | | | | | |
| | Aluminum | | | X | | | | | | X | | | | | | | |
| ENVIRONMENT | FDA compliant | | | | X | | X | | | | | | | | X | | X |
| | Steam | X | X | | X | X | X | X | X | X | | X | X | | X | X | X |
| | Wet | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Drv | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Vacuum | X | X | X | X | | | X | X | X | X | X | | X | X | X | X |
| RELATIVE RATING 1=Low, 5=High | Coefficient of friction | 4 | 4 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 5 | 1 | 1 | 1 | 3 |
| | Creep resistance | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 2 | 2 | 2 | 4 |
| | Insulative prop. (Elec & Temp) | YES | YES | YES | YES | NO | NO | YES | YES | YES | YES | NO | NO | YES | YES | YES | YES |
| COMMENTS | <i>Our Standard Rulon® seal material with higher physical properties</i> <i>Our Standard Rulon® bearite grade Rulon® series. Excellent resistance to High Creep and Abrasion</i> <i>Lowest Coefficient of Friction of Rulon® series. Excellent insulator.</i> <i>Widely used in the food process industry.</i> <i>Very good operation in wet environments.</i> <i>Good thermal and electrostatic dissipation.</i> <i>Temperature (dry) oven bearings. Excellent abrasion</i> <i>Low friction/wear against coated metal or porcelain surfaces.</i> <i>The best Rulon® against aluminum surfaces.</i> <i>Standard tape liner material for Rulon® composite bearings.</i> <i>Extensively used in machine tool guide ways.</i> <i>Extremely low deformation under load and high impact</i> <i>FDA compliant. Excellent chemical resistance</i> <i>A standard material for compressor piston flip-seals.</i> <i>A standard material for compressor piston flip-seals. Ideal for submerged applications.</i> | | | | | | | | | | | | | | | | |

The list above is only a partial list of available formulations of Rulon®

P or V data may be exceeded based on specific application requirements. Ask to speak to a Saint-Gobain Application Engineer.

RATINGS above are relative within Rulon® family ONLY.

For Rulon® materials, coefficient of friction decreases with increasing load, and wear decreases with increasing surface hardness.

For PTFE based materials, wear in steam and wet environments is higher than in drv environments.

Saint-Gobain offers enhanced Rulon® grades, which minimize this effect.

Most Rulon® products have excellent chemical compatibility. Data available upon request.

