



OIL SEAL SELECTION GUIDE

Follow the **SMART** method of selecting the correct seal for your service conditions.

First Step	
Speed	In FPM
Media	Oil <input type="checkbox"/> Grease <input type="checkbox"/> Air <input type="checkbox"/> Other <input type="checkbox"/>
Application	General Purpose <input type="checkbox"/> Double Lip <input type="checkbox"/> Split <input type="checkbox"/> Heavy Duty <input type="checkbox"/> Springless <input type="checkbox"/> Other <input type="checkbox"/>
Run out	Inches T.I.R. (mm)
Temp	°F (°C)

Second Step
1. Determine bore and shaft diameter, cavity depth and shaft speed in RPM.
2. Convert to FPM.
3. Use Table I below to determine design type.
4. Use Table II below to determine material style.
5. Using Mold list in back section. Select the proper mold for your size, design type and style.

Table I				
Application	Maximum Speed FPM (m/min)	Maximum Temperature °F* (°C)	Total Eccentricity (mm)	Design Types Recommended
General Purpose	3200 (975)	300 (149)	.008 (.20)	LUP, LPD
Heavy Duty	3200 (975)	300 (149)	.008 (.20)	STLUP, STLPD
Dual Lip	2500 (762)	300 (149)	.005 (.13)	LDS
Springless	2000 (610)	250 (121)	.008 (.20)	SS
Split	2000 (610)	300 (149)	.005 (.13)	RUP, RPD
Other	*Style H5/L16 available for 500°F service.			

Table II			
Service Media	Suggested Material Styles For Various Media*		
	H1/L5	H1/L7	H1/L16
Mild Oils or Greases (ASTM#1)	Yes	Yes	Yes
Intermediate Oils or Greases (ASTM #2)	Yes	Yes	Yes
Severe Oils or Greases (ASTM #3)	Yes	Yes	Yes
Mild Chemicals	Yes	Yes	Yes
Diesel Base Oils	Yes	Yes	Yes
Water	Yes	Yes	Yes
Air	Yes	Yes	Yes
Phosphate Ester Fluids (Pydraul)	No	No	Yes
(Skydrol)	No	No	Use style L17
(Cellu Lube)	No	No	Yes