Table 1.1 Importance of lubricant properties in relation to bearing type

Lub	Type of component pricant property	Plain journal bearing	Rolling bearing	Closed gears	Open gears, ropes, chains etc	Clock and instrument pivots	Hinges, slides, latches etc
1.	Boundary lubricating properties	+	++	+++	++	++	+
2.	Cooling	++	++	+++	-	-	-
3.	Friction or torque	+	++	++	-	++	+
4.	Ability to remain in bearing	+	++	-	+	+++	+
5.	Ability to seal out contaminants	-	++	-	+	-	+
6.	Temperature range	+	++	++	+	-	+
7.	Protection against corrosion	+	++	-	++	-	+
8.	Volatility	+	+	-	++	++	+

Note: The relative importance of each lubricant property in a particular class of component is indicated on a scale from + + + = highly important to - = quite unimportant

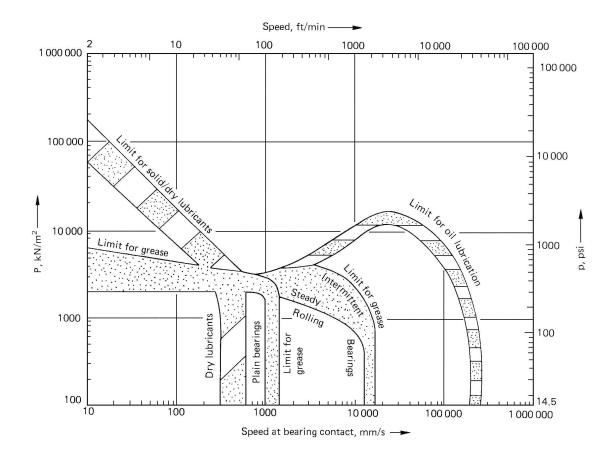


Figure 1.1 Speed/load limitations for different types of lubricant