

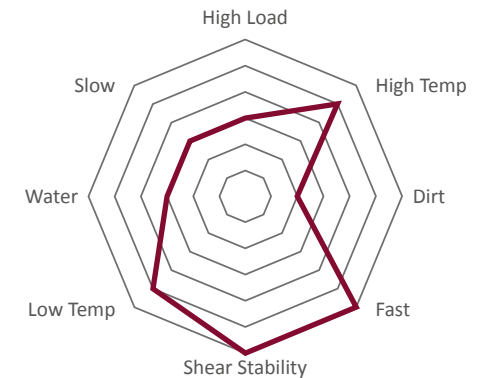
High Speed Conditions

General Info on Conditions and Typical Applications:

Where:	Industry
Typical applications:	Fans, electrical motors, high speed spindles, etc.
Important product properties:	Thermal and oxidative resistance Shear stability

High speed conditions are spread among a large variety of different industrial segments. These conditions can cause mechanical and thermal degradation of the lubricant eventually resulting in overheating and component damage. An appropriate lubricant can aid these challenges by its ability to withstand shear and thermal degradation.

Key Performance Aspects

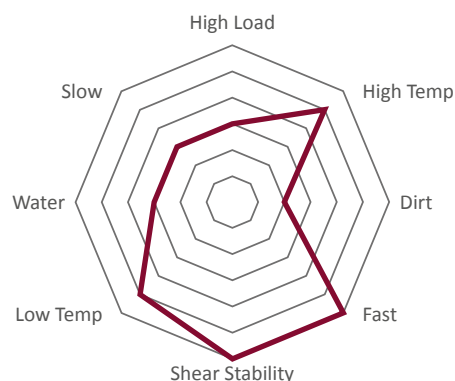


		AXEL Product	Colour	Thickener	NLGI	DP (°C)	BO type	BOV	Solids	T-range (°C)	Approvals
OPTIMAL PERFORMANCE		Axellence 632 EPB		Li-X	2	>260	PAO	44	-	-55 to +140	-
		Noion 632 EPB		Poly	2	>140	PAO	47	-	-30 to +120	-
IMPROVED PERFORMANCE		Axellence 132 EP Red		Li-X	2	>260	Min	60	-	-30 to +140	-
		Axellence 642 EPB		Li-X	2	>260	PAO	100	-	-40 to +150	-
		Axelurea M 142 EM Blue		PU-M	2	>260	Min	105	-	-20 to +160	-
GOOD PERFORMANCE		Acinol 112 EPLT		Li	2	>180	Min	9	-	-50 to +90	-
		Acinol 621 LT		Li	1	>180	PAO	20	-	-50 to +100	-

High Speed Conditions

		AXEL Product	Product Properties	Sample Applications	Sample Industries
OPTIMAL PERFORMANCE		Axellence 632 EPB		Heavily loaded spindles, electrical motor or fan bearings operating at high speeds or low temperatures	
		Noion 632 EPB		Wide variety of moderately loaded spindles, fans, electrical motors, linear guidance and frequency regulated bearings operating at high and/or low speeds. Chucks and bearings in contact with process fluids or applications sensitive to ions.	
IMPROVED PERFORMANCE		Axellence 132 EP Red		Moderately loaded bearings at high speeds or low temperature	
		Axellence 642 EPB		Wide variety of heavily loaded bearings applications and electrical motor bearings	
		Axelurea M 142 EM Blue		Lightly loaded electrical motor bearings operating at medium-high speed	
GOOD PERFORMANCE		Acinol 112 EPLT		Moderately loaded spindles and smaller electric or fan motor bearings operating at high speeds or low temperatures	
		Acinol 621 LT		Lightly loaded small bearings and gears in automotive industry operating at high speeds or low temperatures	

Key Performance Aspects



Product Properties Key

	Central Lubrication		Environmental		Heavy Loads		High Temperature		Multipurpose		Water Resistant
	Corrosion Protection		Extreme Pressure		High Speed		Low Temperature		Special Application		

Sample Industries Key

	Agriculture		Cement		Forestry		Marine		Off-Road		Steel
	Auto		Construction		Industry		Mining		Pulp and Paper		