

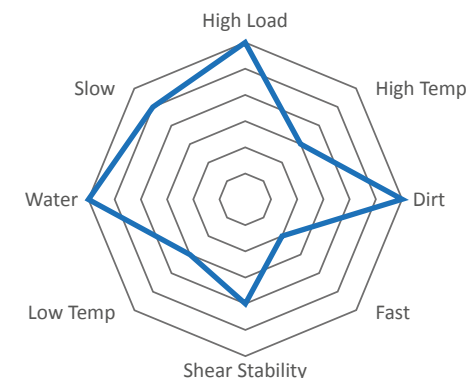
# Wet & Dirty Conditions

## General Info on Conditions and Typical Applications:

Where:	Agriculture, forestry, marine, metalworking, mining
Typical applications:	Cranes, hatches, pin/bushings, saw chains, winches, wire ropes, etc.
Important product properties:	Resistance to water and corrosion Good sealing capabilities

Wet and dirty conditions are spread among a large variety of industrial segments. In these segments there are different applications where water, humidity, process liquids or dirt have direct or indirect access to the lubricant and components. These conditions can cause damage to components, as well as limiting the life and effectivity of the lubricant. An appropriate lubricant can aid these challenges by having good sealant abilities and resistance to liquids.

## Key Performance Aspects

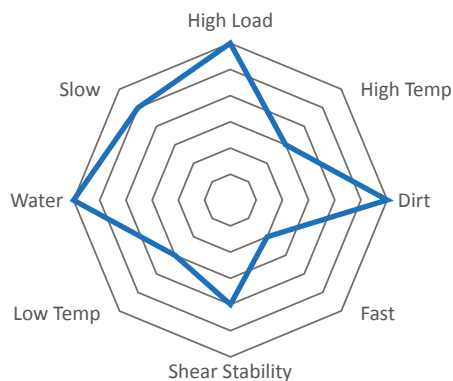


		AXEL Product	Colour	Thickener	NLGI	DP (°C)	BO type	BOV	Solids	T-range (°C)	Approvals
OPTIMAL PERFORMANCE		Alassca 762 BD		Alassca	2	>260	Ester	700	Mix	-30 to +120	SS 155470 / 2013 VGP
		Hycal 762 EPBD		Anh-Ca	2	>140	Ester	490	-	-30 to +80	SS 155470 / 2013 VGP
		Calsullence 142 M5		Ca-S-X	2	>250	Min	150	MoS <sub>2</sub>	-20 to +150	-
		Calsullence 152 WR		Ca-S-X	2	>280	Min	290	-	-30 to +140	-
IMPROVED PERFORMANCE		Axellence 152 EPS		Li-X	2	>260	Min	200	-	-30 to +140	-
		Axellence 162 EPWRM3		Li-X	2	>260	Min	400	MoS <sub>2</sub>	-20 to +140	-
		Axellence 2615 EPHT		Li-X	1,5	>260	Min/Pol	550	-	-20 to +140	-
		Caliac 172 EP		Li-Ca	2	>180	Min	1000	-	-20 to +120	-
		Hycal 272 WR		Anh-Ca	2	>140	Min/Pol	1370	-	-30 to +120	-
GOOD PERFORMANCE		Acinol 252 EP		Li	2	>190	Min/Pol	310	-	-20 to +120	-
		Caliac 252 EP Green		Li-Ca	2	>180	Min/Pol	310	-	-20 to +120	-
		Hycal 152 EP		Anh-Ca	2	>140	Min	250	-	-30 to +110	-
		Hycal 272 WRBF Neon Yellow		Anh-Ca	2	>140	Min/Pol	800	-	-30 to +120	-

# Wet & Dirty Conditions

		AXEL Product	Product Properties	Sample Applications	Sample Industries
OPTIMAL PERFORMANCE		Alassca 762 BD		Extremely loaded open gears, winches, jackings and cranes operating in wet environments with environmental demands	
		Hycal 762 EPBD		Moderately loaded low speed plain bearings, bushes, pins, joints, saw chains and chassis components operating in wet environments with environmental demands	
		Calsullence 142 M5		Extremely loaded plain bearings, bushes, pins, joints and chassis components operating in wet environments	
		Calsullence 152 WR		Extremely loaded continuous casters and pellet presses operating at high temperatures or wet environments	
IMPROVED PERFORMANCE		Axellence 152 EPS		Moderately loaded bearings operating in wet environments	
		Axellence 162 EPWRM3		Moderately loaded low speed plain bearings, bushes, pins, joints and chassis components operating in wet environments	
		Axellence 2615 EPHT		Moderately loaded low speed continuous casters and pellet presses operating at high temperatures or wet environments	
		Caliac 172 EP		Highly loaded low speed bearings, pins and joints operating in wet environments	
		Hycal 272 WR		Moderately loaded low speed plain bearings, bushes, pins, joints and chassis components operating in wet environments	
GOOD PERFORMANCE		Acinol 252 EP		Moderately loaded bearings applications operating in wet environments	
		Caliac 252 EP Green		Moderately loaded bearings components operating in wet environments	
		Hycal 152 EP		Moderately loaded bearings applications operating in wet environments	
		Hycal 272 WRBF Neon Yellow		Moderately loaded low speed plain bearings, bushes, pins, joints and chassis components operating in wet environments	

## 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	