Slow & Heavy Conditions

General Info on Conditions and Typical Applications:

Where: Off-shore, metalworking, mining

Typical applications: Gears, jacking, kilns, mills, winches, wire ropes, etc.

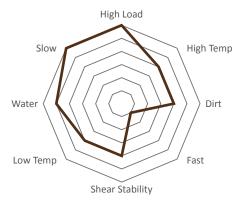
Important product properties: Load carrying ability

Resistance to vibrations and shock loads

Lubricant film formation

High load conditions are present in segments with heavy duty equipment working slowly during high loads, often in combination with vibrations and/or shock loads. These combinations can create boundary lubrication conditions resulting in high wear and weld of components, and mechanical and thermal degradation of the lubricant. An appropriate lubricant can aid these challenges by having good load carrying capacity and resistance to vibrations and shock loads.

Key Performance Aspects



		AXEL Product	Colour	Thickener	NLGI	DP (°C)	BO type	BOV	Solids	T-range (°C)	Approvals
Ę E	High Load Slow High Temp Dirt Low Temp High Shear	Alassca 130 LTM5	-	Alassca	0	>260	Min	70	MoS ₂	-45 to +90	-
RMAN		Alassca 1705 OG	9	Alassca	0,5	>260	Min	850	-	-20 to +140	-
PERFC		Alassca 762 BD	9	Alassca	2	>260	Ester	700	Mix	-30 to +120	SS 155470 / 2013 VGP
TIMAL		Calsullence 1615 WRM	-	Ca-S-X	1,5	>280	Min	400	MoS ₂	-20 to +140	-
Ö		Calsullence 630 M5	-	Ca-S-X	0	>260	PAO	46	MoS ₂	-40 to +140	-
핑	Slow High Load High Temp Water Dirt Low Temp Fast High Shear	Axellence 162 HQ	9	Li-X	2	>260	Min	320	-	-20 to +140	GC-LB
Performance		Axellence 662 EPB	9	Li-X	2	>260	PAO	460	-	-40 to +150	-
		Axellence 681 EPB	9	Li-X	1	>260	PAO/Pol	1750	-	-40 to +150	-
IMPROVED		Caliac 162 EPWR G3M2	-	Li-Ca	2	>180	Min	670	Graph/ MoS ₂	-20 to +120	-
IMPI		Caliac 172 EP	9	Li-Ca	2	>180	Min	1000	-	-20 to +120	-
H	Slow High Load Water Dirt Low Temp Fast High Shear	Acinol 1625 EP	9	Li	2,5	>180	Min	290	-	-20 to +120	-
MANG		Acinol 1800 EP	-	Li	00	>150	Min	1390	-	0 to +100	-
ERFOR		Acinol 1815 HD	9	Li	1,5	>180	Min	1500	-	-20 to +120	-
OOD PERFORMANCE		Caliac 252 EP Green	9	Li-Ca	2	>180	Min/Pol	140	-	-20 to +120	-
Ö		Claytac 0805 HTOG	9	Clay	0,5	N/A	Min	2100	Graph/ CaCO ₃	-10 to +150	-

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		AXEL Product	Product Properties	Sample Applications	Sample Industries
1CE	High Load Slow High Temp	Alassca 130 LTM5		Extremely loaded mills, kilns, gears, chains, etc. operating at low temperatures	& Pa
OPTIMAL PERFORMAN		Alassca 1705 OG		Extremely loaded open gears	
	Water Dirt	Alassca 762 BD	M <u>*</u> *	Extremely loaded open gears, winches, jackings and cranes operating in wet environments with environmental demands	
	Low Temp Fast	Calsullence 1615 WRM		Extremely loaded rolling mill bearings operating at high temperatures and low speed	
	High Shear	Calsullence 630 M5		Extremely loaded mills, kilns, gears, chains, and commercial vehicles operating at low temperatures	Er Pa
ĮČE	Slow High Load Water Dirt Low Temp Fast High Shear	Axellence 162 HQ	Y	Moderately loaded low speed wheel bearings	<u>â</u> ₩ 🗠
Performance		Axellence 662 EPB		Wide variety of heavily loaded bearings operating at high temperatures or low speeds	<u></u>
		Axellence 681 EPB	▼ ♣ 1 	Heavily loaded bearings operating under extremely low speeds	
MPROVED		Caliac 162 EPWR G3M2	<u> </u>	Highly loaded low speed bearings, joints and chassis components	
IMPR		Caliac 172 EP		Highly loaded low speed bearings, pins and joints operating in wet environments	
GOOD PERFORMANCE	Slow High Load Water Dirt Low Temp Fast High Shear	Acinol 1625 EP		Wide variety of moderately loaded low speed bearings, joints and chassis components	
		Acinol 1800 EP	₩ <u>▼ <u>\$</u></u>	Centralized lubrication systems, heavily loaded enclosed gearboxes	B R
		Acinol 1815 HD	<u> </u>	Extremely loaded large journal bearings in sugar cane mills operating at low speed	ei Pa
		Caliac 252 EP Green	^ <u>▼</u> <u>♣</u> /:	Moderately loaded bearings components operating in wet environments	
		Claytac 0805 HTOG	<u> 4</u> <u> 4</u>	Heavily loaded gear applications including slew ring gears, hoist gears, rack & pinion operations	20 % 📾 73

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