



GREASES

Experts in Greases Since 1926

Since 1926, Penrite has been manufacturing the highest quality engine oils and greases.

Like engine oils, greases protect against friction between moving parts. Again, as with engine oils, specific products, with the right chemical makeup are required for specific applications. Using the wrong product will lead to unnecessary wear and the possibility of serious damage.

Water resistance capabilities, high temperature tolerances and shear stability are just some of the qualities sought in greases. Penrite's grease range not only meets these qualities, but exceeds performance expectations by using the highest quality base products and formulations.

With decades of experience and accumulated knowledge, Penrite produces the highest quality, most extensive range of greases, covering every application.

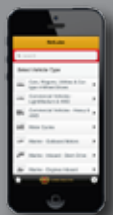
The range boasts nearly thirty different products, and features lithium, lithium complex, calcium, calcium complex, mixed complex and clay based greases.

Penrite has a high quality and diverse range with the right grease for the job. Whether it's automotive, marine, mining, agriculture or industrial applications, we have you covered. The application chart detailed on page three lists the right Penrite product for your application requirements.

To view the entire range of Penrite products visit penriteoil.com and view the lube guide for oil and coolant recommendations. Or simply call **AUS: 1300-PENRITE (1300 736 748)** or **NZ: 0800 533 698** to get the very best technical or sales advice 7 days a week or email sales@penriteoil.com

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APPLICATION

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GREASE TIP:

Ideal quantity of grease in a bearing is 2/3 of bearing's free capacity. The best way to grease a bearing is to: Dismantle, clean, grease and reassemble. Beware of over-filling bearings: This causes seals to fail, solid contaminants can accumulate and temperatures can increase.



**Proudly 100% Australian
Owned and Made Since 1926**



GREASE CHARACTERISTICS:

What is grease?

GREASE = BASE OIL + ADDITIVES + THICKENER

A lubricating grease is made by mixing 2% - 15% of a thickener and other additives into a lube base oil.

How does grease work?

The thickeners in grease absorb lubricants and additives like a sponge and release them when under pressure. The lubricants prevent friction and create a barrier or film between moving parts.

What is a grease expected to do?

- Reduce friction and wear
- Provide corrosion protection
- Seal bearings from water and contaminants
- Resist leakage, dripping and throw off
- Resist change in structure or consistency during service
- Maintain mobility under conditions of application
- Be compatible with seals
- Tolerate or repel moisture

What are the properties of grease?

- Amount and type of thickener
- Additives
- Solids (ie. Moly)
- Water washout and spray off
- Mechanical stability
- Oil separation
- Storage life
- Oxidation resistance
- Rust / corrosion resistance
- Viscosity of base oil
- Bearing life (wheels, electric motors)
- Compatibility (other greases, seals)
- Low temperature torque

What type of Thickeners are used?

- Clay (Organo Clay, ie. Bentone)
- Lithium
- Lithium Complex
- Lithium / Calcium Mixed Complex
- Calcium Complex
- Aluminium Complex
- Others (Calcium, Sodium, Polyurea)

What types of Base Oils are used?

- Castor Oils
- Mineral Oils (Min)
- Synthetic Oils (Syn) (Group 3 & 4, PAO & Ester)
- White Oils (Pharmaceutical Grade)
- Vegetable Oils (Food Grade)

GREASE ADDITIVES:

- Oxidation inhibitors
- Rust/Corrosion inhibitors
- Extreme Pressure Additives
- Anti Wear Additives
- Dyes, Pigments
- Tacky Additive - Adhesive/Cohesive (polymers/resins)
- Insoluble Solids (Moly, Graphite, Copper, Zinc Oxide)

GREASE TYPES:

There are many types of greases which are shown below. As can be seen they have different properties which helps to define where they are best suited.

THICKENER	DROP POINT, °C	MAX SERVICE CONTINUOUS OPERATING TEMP, °C	HIGH TEMP USE	STRUCTURE	SHEAR STABILITY	WATER RESISTANCE
Calcium	100	<80	☐	☐	○	■
Lithium	160 - 200	125	■	☐	■	■
Calcium Complex	>260	150	■	☐ / △	■	■
Lithium Complex	>240	160	■	☐	■	■
Aluminium Complex	>260	150	■	☐ / △	■	■
Barium Complex	>200	150	■	△	○	■
Polyurea	>230	150	■	■	■	■
Bentone	NA	150	■	☐	○	■
Sodium	170 - 190	125	■	△	■	☐

☐ Very Poor ☐ Poor ○ Fair ■ Good ■ Excellent
 △ Buttery ☐ Smooth △ Fibrous △ Gel ■ Opaque

GREASE SERVICE CLASSIFICATION:

There are different categories for Automotive Service Greases developed by the NLGI (National Lubricating Grease Institute). The classification (ASTM D 4950) covers greases designed for the lubrication of chassis components and wheel bearings of passenger cars, trucks and other vehicles.

Consistency - Is the degree of hardness of a grease and may vary considerably with temperature ie. from Fluid to Very Hard. The viscosity range of the base oil used in grease varies from ISO 32 (very thin) to 1500 (extremely thick).

NLGI Grade Penetration - NLGI is measured by a drop method. A special cone is dropped into the grease at 25° Centigrade and the depth of the fall is measured. The thickness of a grease is identified by an NLGI number that ranges from 000 to 6. NLGI 000 is pourable grease and NLGI 6 grease is solid.

This has been classified by the NLGI into the following categories:

NLGI GRADE PENETRATION @ 25°C (1/10th mm)		
000	445 - 475	Fluid
00	400 - 430	Semi-Fluid
0	355 - 385	Very Soft
1	310 - 340	Soft
2	265 - 295	Normal
3	220 - 250	Firm
4	175 - 205	Very Firm
5	130 - 160	Hard
6 (block grease)	85 - 115	Very Hard



GREASE TESTING:

Drop Point Test - The dropping point of grease is the temperature at which the thickener can no longer hold the base oil. Grease is placed in a small cup and heated in an oven-like device. When a drop of oil falls from the lower opening, the dropping point of the grease is calculated using the temperatures in the oven and inside the cup.

4 Ball Weld Test - A 12.7 mm steel ball is rotated against three stationary balls of the same description. Lubricant surrounds the balls. Test conditions are 1770 rpm, 25°C and 10 seconds duration. Testing steps continue with new balls and an increased load until welding of the four balls occurs.

GREASE COLOUR:

A grease's colour is determined by base oil, thickener, additive and dye. A grease can be made to almost any colour to suit a particular environment, application or for identification purposes.

GREASE SHELF LIFE:

The shelf life of any grease is affected by the type and amount of thickener used, consistency of the grease, manufacturing method employed and the formulation complexity. Generally, straight Lithium, Lithium Complex and Calcium Complex greases remain stable for a long time. Aluminium Complex greases tend to set and harden, but remain stable. Bentone and Barium greases tend to soften on aging. Based on these observations:

The shelf life of most Penrite greases is about 5 years. However, Steering Box Lubricant and Semi Fluid Grease only have a 2 year shelf life.

GREASE COMPATIBILITY:

Occasionally, grease substitution in an application may be necessary to correct problems arising from the original product in service. If the thickeners are incompatible, the mixture will not meet the properties of the individual greases and in some cases, the greases will fall apart. The below table provides a rough guide.

	Calcium	Lithium	Calcium Complex	Lithium Complex	Aluminium Complex	Barium Complex	Polyurea	Bentone	Sodium
Calcium		✓	✓	✓	●	✗	✓	✗	✗
Lithium	✓		✓	✓	●	●	✓	✗	●
Calcium Complex	✓	✓		●	✗	●	●	✗	✗
Lithium Complex	✓	✓	●		●	●	✓	✗	●
Aluminium Complex	✗	●	✗	●		✗	●	✗	✗
Barium Complex	✗	●	●	●	✗		●	✗	✗
Polyurea	✓	✓	●	✓	●	●		✗	✗
Bentone	✗	✗	✗	✗	✗	✗	✗		✗
Sodium	✗	●	✗	●	✗	✗	✗	✗	

✓ Compatible ✗ Incompatible ● Borderline

It is strongly advised that, in all cases, the old grease be purged or cleaned out from the system before a new one is introduced. However, compatibility between greases is temperature dependent. As the temperature rises, the problems associated with incompatibility also increase. With unknown competitors' products, it is strongly advised to treat them as incompatible.

Which grease do I use? Follow the L.E.T.S PRINCIPLE:

LOAD • **E**NVIRONMENT • **T**EMPERATURE • **S**PEED

LOAD				
Load	ISO	NLGI	Additives/Base	Recommended Penrite Grease
High	220 460 680	1-2	High Base Oil Viscosity EP & AW Additives	Extreme Pressure Grease ACT Grease XEP2 High Temperature Wheel Bearing Grease
Low	100 150 220	2-3	Low Base Oil Viscosity Firm Consistency	Indgrease Lith R3 Indgrease 100 LXEP2 QCS Grease MXG 0

ENVIRONMENT			
ENV	Protection Type	Additives/Base	Recommended Penrite Grease
Water	Rust Protection Water Resistance	Corrosion Preventative Adhesiveness Tackiness	Marine Grease Indgrease 1615 WR Indgrease CXOG-05
Acid / Alkali	Acid Protection Alkali Protection	Inert Thickener & Additives	Bentone HD Indgrease BM3
Long Dispensing Lines	Good Pumpability Soft Consistency		Indgrease Lith EP 0 Indgrease 100 LXEP2

TEMPERATURE			
Temperature	Protection Type	Additives/Base	Recommended Penrite Grease
Very High	Up to 180°C	Clay Based Greases	Rubber Grease Copper Eze Indgrease BM3 Bentone HD
High	Up to 170°C	Complex Greases	Indgrease 1615 WR Graphite Grease
Moderate	Up to 140°C	Lithium Greases	EP Grease Semi Fluid Grease Steering Box Lube Indgrease Lithium R3
Low	Down to -20°C	Lithium & Complex Greases	High Temperature Wheel Bearing Grease Marine Grease Molygrease EP 3% Indgrease 100 LXEP2 ACT Grease XEP2 QCA Grease MX9

SPEED					
Speed	Load	ISO	NLGI	Additives/Base	Recommended Penrite Grease
High	Low	100 150	2-3	Low Base Oil Viscosity Firm Consistency	High Temperature Wheel Bearing Grease Water Pump Grease Indgrease 100 LXEP2
Low	High	220 460	2	High Base Oil Viscosity Soft Consistency	Indgrease LCX 1100 QCA Grease MX9



APPLICATION CHART



		Cam Assembly Lube	Extreme Pressure Grease	Molygrease EP 3%	Semi Fluid Grease	Steering Box Lube	Indgrease Lith EP 0	Indgrease Lith R3	High Temperature Wheel Bearing Grease	Marine Grease	ACT Grease XEP2	Indgrease 100 LXEP2	Indgrease Moly HT	Water Pump Grease	Indgrease 1615 WR	QCA Grease MX9	QCS Grease MXG 0	Indgrease CX0G-05	Indgrease LCX 100	Copper Eze	Bentone HD	Indgrease BM3	Indgrease DR1	Graphite Grease	Rubber Grease	CEPSA Arga Force	
		LITHIUM							LITHIUM COMPLEX					CALCIUM	CALCIUM COMPLEX	MIXED COMPLEX					CLAY BASED				OTHER		
SPECIFICATIONS	NLGI Grade	Paste	2	2	00	00	0	3	2	2	2	2	1.5	4	1.5	2	0	0.5	2	1.5	2	3	1	3	2	00	
	Colour	Grey	Red	Grey / Black	Light Brown	Light Brown	Light Brown	Amber	Purple	Green	Orange	Brown	Grey/Black	Amber/Yellow	Brown	Grey/Black	Grey/Black	Dark Brown	Brown	Copper	Amber	Grey/Black	Grey	Grey/Black	Red	Black	
	Extreme Pressure	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	
	Solids and %	Yes	No	3	No	No	No	No	No	No	No	No	5	No	No	9	9	No	No	20	No	3	39	15	No	10	
	"ISO" Base Oil Viscosity	NA	320	220	150	150	150	100	220	220	560	100	460	NA	460	680	500	800	1100	460	460	100	100	100	320	"2400"	
	Base Oil Type	Min	Min	Min	Min	Min	Min	Min	Min	Min	Semi Syn	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Castor	Syn
	Drop Point, °C	NA	190	190	170	170	195	195	275	275	>270	275	>260	90	>260	>250	250	>260	>250	Non Melt	>288	Non Melt	Non Melt	80	275	NA	
	Recommended Operating Temperature Range, °C	NA	Minus 20 to plus 130	Minus 20 to plus 130	Minus 20 to plus 130	Minus 20 to plus 130	Minus 20 to plus 130	Minus 20 to plus 130	Minus 10 to plus 170	Minus 15 to plus 170	Minus 20 to plus 140	Minus 20 to plus 160	0 to plus 160	0 to plus 75	Minus 20 to plus 150	Minus 20 to plus 140	Minus 20 to plus 140	Minus 20 to plus 140	Minus 20 to plus 140	0 to plus 1093	Minus 6 to plus 170	Minus 20 to plus 200	Up to 850	Max 60	Minus 9 to plus 80	Minus 20 to plus 150	
	Four Ball Weld Load, kg	NA	400	315	250	250	250	NA	620	315	350	315	550	NA	>660	>800	765	765	560	NA	160	NA	NA	NA	NA	>600	
	Contains Tacky Additive	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes	
AUTOMOTIVE	Water Pumps													R													
	Wheel Bearings							R	R		S											*					
	Engine Assembly	R																									
	Chassis		R	R				S	R	S	S	S	R		S	S	S	S					S		S		
	General Purpose		R	R					R	S	S	S															
	CV Joints			S									S				R										
	Petrol Resistant																									R	
	Tyre Mounting																									R	
	Universal Joints			R					S	S				R			R										
	Steering Boxes				S	R																					
TRUCK & BUS	Wheel Bearings							S		R												*					
	Chassis		S	R			S		S	S	S	R			S	S	S	S				S	S		S		
	General Purpose		S	S					S	S	S	S			S												
	Trailer Couplings			R									R			R	S							R			
	Universal Joints										R		R			R	R										
	Fifth Wheel			S	S	S							S			S	S							S		S	S
INDUSTRIAL	Truck Mounted Automated Greasing Systems						S																				
	High Speed							S	R	R		R															
	Low Speed		S	S					S		S		R			R	R	R	R	R		S	S		S	S	
	Electric Motors/Fans							R				R															
	High Temperature							R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	
	High Load		S	R							R		R		R	R	R	R	R	R	R	R	R	R	R	R	
	Central Systems		S		S	S	R					S	S						S								
	Long Life							S			R	R	S		R	R	R	S	S								
	Shock Loads		S	R					S	S	S	R	R		R	R	R	R	R	R		S	R				
	Anti Seize																				R			R			
AGRI	Sliding Surfaces / Splines			R																				R			
	Wet Environments			R				S	R	S	S	S	S	S	R	S	S	S	S	S	S	R	R	S	S	R	
	Kiln Cars/Oven Conveyors																					R					
	General Purpose		S	S					R		S	S	S			S				S							
	Slasher Gearboxes				R	R																					
	Sugar Mills															S			S	R							S
MINING & CONSTRUCTION	Water Pumps												R														
	Wheel Bearings							S	S	R																	
	King Pins/Shackles			S									R			S	R	R	S	S		R	R		S		
	Open Gears				S	S														R							R
	Anti Seize																				R				R		
	Drill Rods																							R	R		
	Wire Ropes														S												S
	Vibrating Conditions			S							R		R				R	S		S					S		
	High Temperatures								R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	
	Wet Environments			S					R	R	R	R	R	S		R	R	R	R	R		S	R		S		R
MARINE	Central Systems			S	S	R					S																
	Boat Trailer Bearings								R	R		S													R		S
	Deck Equipment			S						R	S	S	S			R	S	S							R		S
Anti Seize																				R			R				

S = SUITABLE • R = RECOMMENDED *May be used in this application only if a clay/bentone grease has been used prior. Contact Penrite Lubricants Help Line for further details. Phone 1300 PENRITE (736 748)



LITHIUM GREASES

Cam Assembly Lube

Product Code	Pack Size	Carton Qty	Colour: Grey Recommended Operating Temperature Range: N/A
CAM0001	100 Grams	6	



Penrite Cam Assembly Lube is a special purpose sticky paste formulated with a lithium grease, designed for the initial lubrication of engine parts during the engine assembly process. These items include camshaft lobes, followers, journals, camshaft and crankshaft bearings, pushrod tips, rockers, bushes, gears, thrust bearings and timing chains. It contains rust inhibitors, oxidation inhibitors, tackiness additives, zinc and graphite anti-wear agents to provide outstanding engine lubrication protection prior to and during first starting of new or rebuilt engines.

Extreme Pressure Grease

Product Code	Pack Size	Carton Qty	Colour: Red Recommended Operating Temperature Range: -20°C to 130°C
EPGR00045	450 Grams	12	Key Specifications: NLGI 2, ISO 6743, KP2K-30, DIN 51502 Penrite Extreme Pressure Grease is an NLGI 2, red coloured, general purpose grease manufactured from high quality base oils and uses a lithium soap base. It is suitable for use in all general grease applications in automotive and industrial service. This includes plain bearings, slow speed wheel and anti-friction bearings, chassis grease, general plant lubrication and agricultural and construction equipment lubrication.
EPGR0005	500 Grams	12	
EPGR0025	2.5 Kilograms	6	
EPGR020	20 Kilograms	1	
EPGR055	55 Kilograms	1	
EPGR180	180 Kilograms	1	



Molygrease EP 3%

Product Code	Pack Size	Carton Qty	Colour: Grey Recommended Operating Temperature Range: -20°C to 130°C
MOLY00045	450 Grams	12	Key Specifications: NLGI 2 Penrite Molygrease EP 3% is an all purpose, NLGI 2, high temperature grease. It features a lithium soap base with premium quality base oils and molybdenum disulphide (moly) for added protection. It is used for general grease applications in automotive and industrial service areas. Molygrease Ep 3% is particularly suitable for use where the grease is likely to be exposed to the weather and/or squeezed out. In these applications, a thin film of molybdenum will provide some measure of protection until the component can be re-greased.
MOLY0005	500 Grams	12	
MOLY0025	2.5 Kilograms	6	
MOLY020	20 Kilograms	1	
MOLY055	55 Kilograms	1	
MOLY180	180 Kilograms	1	



Semi Fluid Grease

Product Code	Pack Size	Carton Qty	Colour: Light Brown Recommended Operating Temperature Range: -20°C to 130°C
SEMI00045	450 Grams	12	Penrite Semi Fluid Grease is an extreme pressure, NLGI 00, lithium soap thickened grease, blended using extreme pressure additives, anti-wear, rust and oxidation inhibitors. It is suitable for use in trailer bearing hubs where heavy oils are specified and leakage is a problem, chain cases, slow speed industrial gear boxes where AGMA 7EP (ISO 460 and above) or heavier oils are specified, leaky gear boxes, reduction gear boxes in slasher mowers, track rollers in earth moving equipment, centralised lubrication systems that require fluid (or "liquid") type greases, Burman motorcycle gear boxes.
SEMI0005	500 Millilitres (UK)	6	
SEMI020	20 Kilograms	1	



Steering Box Lube

Product Code	Pack Size	Carton Qty
SBL00045	450 Grams	12
SBL0005	500 Millilitres	6

Colour: **Light Brown**
Recommended Operating Temperature Range: **-20°C to 130°C**

Penrite Steering Box Lube is an extreme pressure, NLGI 00, lithium based grease, blended with effective anti-wear, rust and oxidation inhibitors. It is a high viscosity, self-levelling grease that features non-corrosive extreme pressure (EP) additives to provide enhanced film strength protection. It is suitable for veteran/vintage and some classic car steering boxes. It can also be used in some classic car and motorcycle gearboxes that require high viscosity lubrication or a self levelling grease such as Burman motorcycle gear boxes used in many older motorcycle brands such as AJS, BSA, Ariel and others.



Indgrease Lith EP 0

Product Code	Pack Size	Carton Qty
IGRLITHEP0020	20 Kilograms	1

Colour: **Light Brown**
Recommended Operating Temperature Range: **-20°C to 130°C**

Key Specifications: NLGI 0, DIN 51502: KPOK-20, ISO 6743: ISO-LXCCFB

Penrite Indgrease Lith EP 0 is an NLGI 0, lithium based, mineral lubricating grease. It is made with a combination of antioxidants, corrosion inhibitors and Extreme Pressure (EP) and Anti Wear (AW) additives. It is a high quality multi-purpose, semi-fluid type grease for use in many types of automotive and industrial applications including heavy duty service where high loads are encountered. Indgrease Lith EP 0 is suitable for rolling element bearings, plain bearings, gears and couplings, where an NLGI 0 grease is required.



Indgrease Lith R3

Product Code	Pack Size	Carton Qty
IGRLR300045	450 Grams	12

Colour: **Amber**
Recommended Operating Temperature Range: **-20°C to 130°C**

Key Specifications: NLGI 3, DIN 51502: KP3K-20, ISO 6743: ISO-LXCCFA3

Penrite Indgrease Lith R3 is a high quality NLGI 3, lithium multi-purpose Rust & Oxidation (R&O) type grease. Designed as a multi-service grease for industrial applications, particularly high speed, low load bearing applications. It is suitable for rolling element bearings, plain bearings, gears and couplings. The applications range from electric motors, pumps, fans and generators. Has outstanding corrosion and water resistant properties and can be employed where water ingress is present.



LITHIUM COMPLEX GREASES

High Temperature Wheel Bearing Grease

Product Code	Pack Size	Carton Qty
HTGR00045	450 Grams	12
HTGR0005	500 Grams	12
HTGR0025	2.5 Kilograms	6
HTGR020	20 Kilograms	1
HTGR055	55 Kilograms	1
HTGR180	180 Kilograms	1

Colour: **Purple**
Recommended Operating Temperature Range: **-10°C to 170°C**

Key Specifications: NLGI 2, DIN 51502, ISO 6743, KP2N-30, ISO-LXCDIB2, Volvo 97720 (level)


Penrite High Temperature Wheel Bearing Grease is an NLGI 2, purple coloured, high temperature all-purpose, extreme pressure (EP) grease manufactured from high quality base oils and a lithium complex soap. It utilises a special borate additive system for effective extreme pressure performance and anti-wear protection. It is suitable for use in all general chassis grease applications in automotive and industrial service, including in cars, 4WDs, trucks and buses.



Marine Grease

Product Code	Pack Size	Carton Qty	Colour: Green Recommended Operating Temperature Range: -15°C to 170°C
MARGR00045	450 Grams	12	Key Specifications: NLGI 2, DIN 51502, ISO 6743
MARGR0005	500 Grams	6	


Penrite Marine Grease is an NLGI 2 green coloured, tacky, high temperature all-purpose grease manufactured from high quality mineral base oils and a lithium complex soap. It utilises a special anti-rust additive for enhanced protection in marine environments and tackiness additives to allow it to stay in place. It has been formulated for use in many marine grease applications. These include boat trailer wheel bearings and general on-board greasing points in leisure craft and fishing fleets including winch gears, bearing buddies, stern drives, prop shaft splines, steering tubes and cables. It is also suitable for use in wheel bearings of vehicles fitted with disc brakes.



ACT Grease XEP2

Product Code	Pack Size	Carton Qty	Colour: Red/Orange Recommended Operating Temperature Range: -20°C to 140°C
ACTXEP200045	450 Grams	12	Key Specifications: NLGI 2, ISO 6743, KP2K-30, DIN 51502
ACTXEP2180	180 Kilograms	1	


Penrite ACT Grease XEP2 is a tenacious, highly specialised semi-synthetic, NLGI 2, lithium complex grease designed for use in agricultural and construction equipment as well as on highway trucks. ACT Grease XEP2 can be used in various industrial, heavy duty automotive, agricultural, construction and mining applications, where it provides outstanding protection for low to medium speed bearings that are heavily loaded and where molybdenum greases are not required.



Indgrease 100 LXEP2

Product Code	Pack Size	Carton Qty	Colour: Brown Recommended Operating Temperature Range: -20°C to 160°C
INDGR100LXEP200045	450 Grams	12	Key Specifications: NLGI 2, DIN 51502 KP2N-20, ISO 6743, ISO-L-XCDB2
INDGR100LXEP2180	180 Kilograms	1	

Penrite Indgrease 100 LXEP 2 is a premium, high melting point, NLGI 2, lithium complex grease. It is a high temperature grease designed to meet the most demanding grease applications especially where a low base oil viscosity and long life is required. It is recommended for use in most types of industrial applications operating under high speed and conditions where shock loads, extreme pressure and vibration may occur. It can provide long life protection for rolling element bearings, plain bearings, gears and couplings in applications that include electric motors, pumps, fans and generators.



Indgrease Moly HT

Product Code	Pack Size	Carton Qty	Colour: Grey Recommended Operating Temperature Range: 0°C to 160°C
INDGRSMOLYHT00045	450 Grams	12	Key Specifications: NLGI 1.5
INDGRSMOLYHT018	18 Kilograms	1	
INDGRSMOLYHT180	180 Kilograms	1	

Indgrease Moly HT is a premium heavy duty, NLGI 2 grease designed for the mining and construction industries. It is a smooth black grease based on a lithium complex thickener. It is formulated with high quality base stocks combined with extreme pressure additives for maximum loading applications and anti-wear protection. Indgrease Moly HT is the prime recommendation for mining and construction applications. The extreme load capability makes it ideal for bucket pins, plain and roller bearings and all other heavy duty applications in the mining, construction and industry in general.




CALCIUM GREASES

Water Pump Grease

Product Code	Pack Size	Carton Qty	Colour: Amber Recommended Operating Temperature Range: 0°C to 75°C
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WPGR00005 50 Grams 12

Key Specifications: NLGI 4

Penrite Water Pump Grease is an NLGI 4, moderate duty grease manufactured from high quality base oils and a calcium soap. It is recommended for the lubrication of water pumps in older vehicles or in fire fighting and irrigation equipment requiring a heavy grease. Water Pump Grease can be used in spring loaded greasing units, via a grease gun to pump shafts or in screw applied greasers.



CALCIUM COMPLEX GREASES

Indgrease 1615 WR

Product Code	Pack Size	Carton Qty	Colour: Brown Recommended Operating Temperature Range: -20°C to 150°C
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INDGR1615WR018 18 Kilograms 1
INDGR1615WR180 180 Kilograms 1

Key Specifications: NLGI 1.5, DIN 51502: KP1.5N-20, ISO 6743: ISO-L-XBDFB1.5

Penrite Indgrease 1615 WR is an NLGI 1.5, calcium sulphonate complex thickened, extreme pressure lubricating grease based on mineral oil. Contains antioxidants and corrosion inhibitors. Does not contain conventional EP- and anti-wear additives since they are built in as an integral part of the soap structure. Indgrease 1615 WR is a modern high performance product especially suitable for industrial applications. The extreme load carrying capacity and the excellent water resistance make the product a perfect choice for heavily loaded applications or wet and corrosive environments.



MIXED COMPLEX GREASES

QCA Grease MX9

Product Code	Pack Size	Carton Qty	Colour: Grey/Black Recommended Operating Temperature Range: -20°C to 140°C
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QCAG00045 450 Grams 12
QCAG020 20 Kilograms 1
QCAG180 180 Kilograms 1

Key Specifications: NLGI 2, Caterpillar MPGM

Penrite QCA Grease MX9 is an NLGI 2, advanced technology, mixed-complex grease, containing 9% solids that provide additional lubrication in severe heavy duty applications where high shock loads are common including those in corrosive environments. These include industrial plants and off-highway equipment used in the mining, agricultural, forestry and construction industries to name a few. Ideal for shackles, bolts, ball joints, king-pins, slow speed bearings, universal joints, CV (constant velocity) joints and may be used as a fifth wheel lubricant.



QCS Grease MXG O

Product Code	Pack Size	Carton Qty	Colour: Black Recommended Operating Temperature Range: -20°C to 140°C
QCSMXGO018	18 Kilograms	1	Key Specifications: NLGI 0, DIN 51 502: GOGON-20, ISO 6743: ISO-L-XBDIB0
QCSMXGO180	180 Kilograms	1	

Penrite QCS Grease MXG O is an NLGI 0, advanced technology, lithium-calcium complex grease with a mineral oil base that has "built-in" extreme pressure and anti-wear properties. It is further enhanced by the addition of an anti-oxidant, corrosion inhibitors and 9% graphite. It also uses special tackifiers to help the product stay in place and adhere to critical surfaces where it can better lubricate metal surfaces. QCS Grease MXG O is recommended for use in severe heavy duty applications where extreme, heavy shock loads are common. It has excellent mechanical stability, water resistance and corrosion protection, making it an excellent choice for wet and corrosive environments.



Indgrease CXOG-05

Product Code	Pack Size	Carton Qty	Colour: Dark Brown Recommended Operating Temperature Range: -20°C to 140°C
INDGRCXOG5018	18 Kilograms	1	Key Specifications: NLGI 0.5, DIN 51 502: KPGOG0.5N-30, ISO 6743: ISO-L-XCDIB0.5
INDGRCXOG5180	180 Kilograms	1	

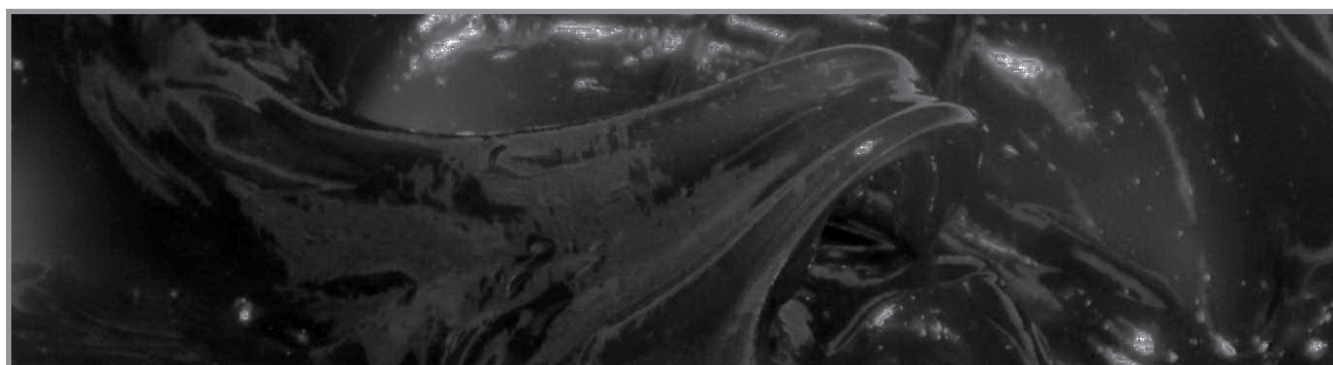
Penrite Indgrease CXOG-05, NLGI 0.5 advanced technology lithium-calcium complex grease with built-in extreme pressure and anti-wear properties. Enhanced by the addition of anti-oxidant and corrosion inhibitors. Uses special tackifiers to help stay in place and adhere to critical surfaces. Provides a superior outcome over "super-stringy" greases that adhere to themselves but not surfaces. Recommended in severe heavy duty applications where high shock loads are common including those in corrosive environments. Suitable for industrial plants and off-highway equipment used in the mining, agricultural, forestry and construction industries.



Indgrease LCX 1100

Product Code	Pack Size	Carton Qty	Colour: Brown Recommended Operating Temperature Range: -20°C to 140°C
INDGRLCX1100018	18 Kilograms	1	Key Specifications: NLGI 2, DIN 51502: KP2N-20, ISO 6743: ISO-L-XBDIB2
INDGRLCX1100180	180 Kilograms	1	

Penrite Indgrease LCX 1100 is an NLGI 2, lithium-calcium complex thickened lubricating grease based on a high viscous mineral oil. It is manufactured from a bismuth EP/AW additive technology containing antioxidants and corrosion inhibitors. It has good adhesion and mechanical stability even in presence of water and corrosive fluids. Indgrease LCX 1100 is a high tech product specially designed for heavily loaded industrial applications. The product is the primary choice for applications where shock loads or severe water flushing can occur and is ideal for sugar mills.



CLAY BASED GREASES

Copper Eze

Product Code	Pack Size	Carton Qty
CEZE0001	100 Grams	6
CEZE0005	500 Grams	12

Colour: Copper
Recommended Operating Temperature Range: 0°C to 1093°C

Key Specifications: NLGI 1.5

Penrite Copper Eze is an NLGI 1.5, bentone based anti-seize grease containing micro-size copper, zinc oxide and additional synthetic base oil that resists temperatures up to 1093°C. Used to coat flanges, threads, nuts, bolts that are subject to corrosion or seizure etc. prior to assembly, to enable easy disassembly for service or replacement. Ideal for exhaust manifold studs, exhaust clamps, turbocharger connections, spark plug threads and in brake assemblies. Ideal for disc brake calliper sliding pins.



Bentone HD Grease

Product Code	Pack Size	Carton Qty
BENHDGR00045	450 Grams	12

Colour: Brown
Recommended Operating Temperature Range: -6°C to 170°C

Key Specifications: NLGI 2

Penrite Bentone HD Grease is an NLGI 2, high temperature bentonite (clay) based automotive and industrial grease. Uses high quality base oils, formulated with extreme pressure additives to assist in the protection against wear in equipment involved in heavily loaded applications and withstanding high temperatures. Recommended for plain and anti-friction bearings operating in high temperature environments. It is also suitable for threaded spindles and guides and in the paper industry where felt guide rolls are in use. Bentone HD Grease is suitable for use where caustic, alkaline or acidic fluids are likely to be encountered.



Indgrease BM3

Product Code	Pack Size	Carton Qty
IGRBM300045	450 Grams	12

Colour: Grey
Recommended Operating Temperature Range: -20°C to 200°C

Key Specifications: NLGI 3

Penrite Indgrease BM3 is a highly specialised, NLGI 3, bentone clay no-melt type grease, manufactured with highly refined base oils and Molybdenum disulphide. Suitable for equipment exposed to severe weather conditions such as cranes, conveyor chains, ore crushers, rolling mills and other exposed drives. Recommended for use on trucks and buses on chassis points and fifth wheel areas. Can be used in industrial, construction and agricultural equipment where applications include medium and large size plain bearings, large diameter ball and roller bearings running at low speeds.



Indgrease DRI

Product Code	Pack Size	Carton Qty
INDGRSDR1020	20 Kilograms	1

Colour: Grey
Recommended Operating Temperature Range: Up to 850°C

Key Specifications: NLGI 1

Penrite Indgrease DRI is a premium NLGI 1, high temperature, bentone or clay industrial grease. Contains a high percentage of solid lubricants including aluminium, nickel and molybdenum disulphide. Designed as a drill rod grease and an anti-seize grease. Suitable for the lubrication of bits and couplings in the mining industry, ideal in other industrial applications.



OTHER GREASES

Graphite Grease

Product Code	Pack Size	Carton Qty	Colour: Grey/Black	Recommended Operating Temperature Range: Max 60°C
GRGR0005	500 Grams	12	Key Specifications: NLGI 3	



Penrite Graphite Grease is a NLGI 3, graphite impregnated calcium based grease, designed for the lubrication of spring leaves, handbrake cables, flexible drives and exposed chains. Suitable for use in slow speed plain bearings and slides where a heavy grease with solid lubricants is required. Can be used in industrial, mining and construction equipment including bulldozers, scrapers, loading shovels and dump trucks.

Rubber Grease

Product Code	Pack Size	Carton Qty	Colour: Red	Recommended Operating Temperature Range: -9°C to 80°C
RUBGR0005	500 Grams	12	Key Specifications: NLGI 2	
RUBGR020	20 Kilograms	1		



Penrite Rubber Grease is a premium quality NLGI 2, clay based grease. Contains castor oil for use with natural and or synthetic rubber. Used as a general purpose, non-harmful grease for industrial, automotive rubber parts such as hydraulic dust covers, braking system components, seals and washers. Designed for use on rubber components in hydraulic systems and for use with other rubber components such as gaiters or boots used on these systems.

PENRITE PRODUCT	Grams				Millilitres	Kilograms				
	50	100	450	500	500	2.5	18	20	55	180
Cam Assembly Lube	-	○	-	-	-	-	-	-	-	-
Extreme Pressure Grease	-	-	○	○	-	○	-	○	○	○
Molygrease EP 3%	-	-	○	○	-	○	-	○	○	○
Semi Fluid Grease	-	-	○	-	○	-	-	○	-	-
Steering Box Lube	-	-	○	-	○	-	-	-	-	-
Indgrease Lith EP 0	-	-	-	-	-	-	-	○	-	-
Indgrease Lith R3	-	-	○	-	-	-	-	-	-	-
High Temperature Wheel Bearing Grease	-	-	○	○	-	○	-	○	○	○
Marine Grease	-	-	○	○	-	-	-	-	-	-
ACT Grease XEP2	-	-	○	-	-	-	-	-	-	○
Indgrease 100 LXEP2	-	-	○	-	-	-	-	-	-	○
Indgrease Moly HT	-	-	○	-	-	-	○	-	-	○
Water Pump Grease	○	-	-	-	-	-	-	-	-	-
Indgrease 1615 WR	-	-	-	-	-	-	○	-	-	○
QCA Grease MX9	-	-	○	-	-	-	-	○	-	○
QCS Grease MXG 0	-	-	-	-	-	-	○	-	-	○
Indgrease CXOG-05	-	-	-	-	-	-	○	-	-	○
Indgrease LCX 1100	-	-	-	-	-	-	○	-	-	○
Copper Eze	-	○	-	○	-	-	-	-	-	-
Bentone HD	-	-	○	-	-	-	-	-	-	-
Indgrease BM3	-	-	○	-	-	-	-	-	-	-
Indgrease DR1	-	-	-	-	-	-	-	○	-	-
Graphite Grease	-	-	-	○	-	-	-	-	-	-
Rubber Grease	-	-	-	○	-	-	-	○	-	-





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