

# PPX<sup>TM</sup>

## FORMULA 7



**ADVANCED LUBRICATION  
TECHNOLOGY**



# **PPX™ – Advanced Lubrication Technology**

**FORMULA 7**

## **Improves the performance of existing lubricants by treating the metal – not the fluid**

**PPX** is a unique mixture of exotic petroleum derivatives that reduces both friction and wear in virtually any metal-to-metal contact situation by treating the metal surfaces.

The **PPX** range includes special formulations for metal cutting, metal forming, industrial and automotive friction reduction, and both general and food grade high temperature, extreme pressure greases.

**PPX** contains no dangerous ingredients such as PTFE, Molybdenum Disulphide, Lead, Silicon or Graphite so will be both safer to use and cause less damage to the environment than commonly used lubricants or additives.

When **PPX** is introduced to any piece of equipment its tiny, ball-bearing like, molecules are attracted to all the metal surfaces where they actually fill any pores or rough surfaces producing smoother running faces.

The treatment will naturally improve the equipment's performance as less power is wasted overcoming friction or producing excess heat or noise; this results in improved energy consumption and lower running costs.

As **PPX** reduces the friction in a machine it will also reduce the wear and therefore a machine will run longer between service intervals and each component will have a longer service life.

## **PPX™ – and The Environment**

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**PPX** has a positive impact on the environment in two ways:

### **Direct impact:**

- uses no non-petroleum, potentially hazardous ingredients such as PTFE, graphite, molybdenum disulphide, lead or carbon tetrachloride.
- uses only petroleum derivatives that are proven non-hazardous and produces no toxic fumes or emissions to pollute the environment.
- can be recycled rather than dumped.
- requires no special handling or storage methods.

### **Indirect impact:**

- increases carrier oil life by reducing contamination and therefore allows the operation to run cleaner, the oil to last longer and require less frequent disposal.
- reduces power consumption of all treated machinery and therefore increases the energy efficiency of your plant.
- reduces friction and therefore machine noise pollution.
- reduces harmful emissions from power plant as carbon residues and other contaminants in carrier oils are reduced.



# PPX™ – Automotive, Transport and Marine

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The range of **PPX** products specially formulated for use in automotive, transport and marine applications gives the following benefits:

- Improves fuel consumption
- Reduces engine and transmission component wear
- Increases maintenance intervals
- Reduces oil consumption
- Improves cold starting
- Lowers engine and transmission operating temperatures
- Reduces engine and transmission noise

The **PPX** Automotive, Transport and Marine range is available in the following forms:

- |   |   |
|---|---|
| AUTOMOTIVE FRICTION REDUCER   | – for use with engine lubricating oils          |
| DIESEL FRICTION REDUCER   | – for use with engine lubricating oils          |
| TRANSMISSION AND GEARBOX  | – for use in power transmissions and gear boxes |
| AUTOMATIC TRANSMISSION SUPPLEMENT – specially formulated for use in automatic transmissions |   |
| TWO STROKE / MARINE TWO STROKE  | – for use in two stroke engines.                |

These products can be used in domestic, commercial or off-road vehicles, and in a variety of marine applications.

## Routinely achieved improvements:

Improves fuel consumption – on average by 10–15% dependent on type of driving and vehicle.

Increases engine and transmission component life by up to 100%.

Extends major maintenance interval.

Increases oil life by up to 100%.

Reduces running temperature and noise by 10–20%

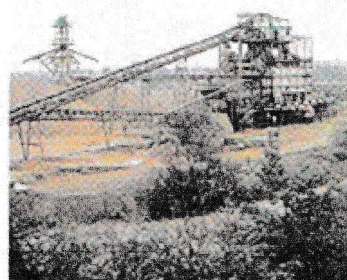
Reduces gearbox friction and wear giving smoother gear changes and extended gearbox life.



# PPX™ – Industrial FORMULA 7

The **PPX** Industrial range gives the following benefits when used with existing oils:

- ★ increases equipment life
- ★ reduces power consumption
- ★ increases maintenance intervals
- ★ reduces equipment running temperature and noise
- ★ eliminates stick/slip in slides, guides, screws and bearings



The **PPX** Industrial range includes:

**TRANSMISSION AND GEARBOX FRICTION REDUCER** – for use in: light and heavy duty gearboxes; worm reducers; generators; refrigeration plant; construction plant; agricultural equipment; marine engines.

**INDUSTRIAL LUBE** – for use as: chain lubricant; general maintenance and rust prevention/penetration.

**HYDRAULIC FLUID SUPPLEMENT** – for use with hydraulic and oil circulating systems.

## Routinely achieved improvements:

- |                                 |                       |
|---------------------------------|-----------------------|
| Lower operating temperatures    | – by between 15–20%   |
| Reduced power consumption       | – typically by 10–20% |
| Reduced operating noise         | – by up to 10%        |
| Increased maintenance intervals | – by up to 50%        |

The **PPX** Industrial range also includes greases for high temperature, extreme pressure applications which are available in the following forms:

**LITHIUM COMPLEX** – Multi-purpose heavy duty lubrication applications – Timken OK load + 100 lbs

**ALUMINIUM COMPLEX** – For use in constant water and brine exposure applications such as those found in papermills, marine use, mineral extraction, steel and construction plants.

**FOOD GRADE** – For use in food processing/handling applications (satisfies USDA H-1 requirements where incidental contact with food may occur).



These greases offer the same benefits as the rest of the **PPX** Industrial range in that they increase equipment life, reduce running temperatures and noise and improve the equipment's energy efficiency. The range has been proven for use with virtually any gasket or seal material.





# PPX<sup>™</sup> – Metal Working

## FORMULA 7

This comprehensive range of PPX products offers the user the following benefits when used with existing coolants or lubricants:

- ★ Increased tool life
- ★ Increased production rates
- ★ Reduced energy consumption
- ★ Improved material surface finishes
- ★ Reduced operating temperature
- ★ Increased maintenance intervals
- ★ Less corrosion and rusting
- ★ Increased lubricant life

### PPX METAL CUTTING

For use in the following operations:

- |                  |                |              |
|------------------|----------------|--------------|
| ★ Drilling       | ★ Turning      | ★ Heavy Duty |
| ★ Milling        | ★ Boring       | ★ Burnishing |
| ★ Tapping        | ★ Gear Hobbing | ★ Broaching  |
| ★ Thread Cutting | ★ Sawing       | ★ Reaming    |

The PPX Metal Cutting range is available as:

- METALPRO ALPHA** – For use with water soluble coolants/cutting oils
- METALPRO BETA** – For use with neat oil based coolants/cutting oils  
May also be used with synthetic oils with positive effects to the characteristics of that lubricant.
- INDUSTRIAL LUBE** – Multi-duty, multi-purpose lubricant available in either aerosol or fluid form.

### Routinely achieved improvements:

- Increased tool life** – Drilling stainless steel × 3–4 times;  
Drilling aluminium × 8 times.
- Enhanced production rates** – Drilling speed and feed – 20%;  
Gear Hobbing + 15–20%.
- Reduced energy consumption** – Typically 10% less power required.
- Increased interval between tool re-sharpenings** – Typically by 25%.
- Improved machined surface finishes and inhibits subsequent rusting/oxidisation.**
- Extended tap life and improved tapping quality.**



### PPX METAL FORMING

For use in the following operations:

- |                |                  |              |
|----------------|------------------|--------------|
| ★ stamping     | ★ forging        | ★ spinning   |
| ★ deep drawing | ★ stretch/press  | ★ draw, wall |
| ★ extrusion    | ★ operations     | ★ ironing    |
| ★ cold heading | ★ thread and     | ★ coining/   |
|                | ★ spline rolling | ★ seaming    |

The PPX Metal Forming Fluid is available as:

- METALFORM 2000** – For use with oil based metalworking or die lubricants.

### Routinely achieved improvements:

- Increased die life** – Up to 400% increase in number of parts produced after a single application.
- Reduced energy consumption** – Typically 10% less power required.
- Increased production rates** – Often by up to 20%.
- Improved surface finish due to the elimination of scratching, galling and orange peel effect on material surfaces and inhibits subsequent rusting/oxidisation.**

### PPX TRANSMISSION AND GEARBOX FRICTION REDUCERS

For use in the gear boxes or power transmissions of all machine tools. When added to transmissions and gearboxes, PPX friction reducers will give: reduced machine noise and running temperature; increased maintenance intervals; reduced energy consumption; increased machine life.



# – Range of Products

## **FORMULA 7**

### **METALWORKING:**

	<i>Applications</i>	<i>Sizes Available</i>
<b>Metalpro-Alpha</b>	Drilling, milling, tapping, thread cutting, turning, broaching, boring, gear hobbing, reaming, sawing, heavy duty burnishing.	3.79 and 9.46 litres
<b>Metalpro-Beta</b>		
<b>Metalform 2000</b>	Stamping, drawing, extruding, cold heading, forging, stretch/press operations, thread and spline rolling, spinning, draw wall ironing, coining/seaming.	3.79 and 9.46 litres
<b>Transmission and Gearbox Friction Reducer</b>	Machine tool gearboxes.	3.79 and 9.46 litres
<b>Industrial Lube &amp; Industrial Lube Mist</b>	Single/multi-station drilling, tapping, milling, thread cutting, etc.	85g, 340g and 3.79 litres

### **INDUSTRIAL:**

	<i>Applications</i>	<i>Sizes Available</i>
<b>Transmission and Gearbox Friction Reducer</b>	Light and heavy duty gearboxes.	3.79 and 9.46 litres
<b>Industrial Lube</b>	Slides, guideways, screws, power feed systems, servo-mechanisms.	85g, 340g and 3.79 litres
<b>Hydraulic Fluid Supplement</b>	Hydraulic and oil circulating systems	0.355, 3.79 and 9.46 litres

### **AUTOMOTIVE, TRANSPORT AND MARINE:**

	<i>Applications</i>	<i>Sizes Available</i>
<b>Automotive Friction Reducer</b>	Domestic, commercial and off-road vehicles	0.355 litres
<b>Diesel Friction Reducer</b>	Diesel vehicles.	0.355 and 3.79 litres
<b>Transmission and Gearbox Friction Reducer</b>	Domestic, commercial and off-road vehicles	0.355 litres
<b>Automatic Transmission Supplement</b>	Automatic transmissions.	0.355 litres
<b>Two-Cycle Marine Motor Oil</b>	Marine engines.	0.95 litres
<b>Two-Cycle Motor Oil</b>	Horticultural, marine and agricultural equipment.	0.95 litres

### **High Temperature Extreme Pressure Greases:**

<b>Lithium Complex</b>	Bearings, conveyors, construction equipment, mining operations.	397g, 15.88, 54.43 and 181.44 kg
<b>Aluminium Complex</b>	Oven conveyor, sand and gravel equipment, agricultural equipment, steel mills, paper mills, marine engines.	
<b>Food Grade</b>	All food processing machinery.	

or your local distributor:

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