

PETRONAS Industrial Solutions

Future Focused



Industrial Product Catalogue

Is downtime or declining demand impacting your Pulp and Paper business?



Simplify your production process with our state-of-the-art solutions

Strict regulations and aging machinery are just two of the unique challenges faced by the Pulp and Paper industry. Maintaining equipment has become increasingly critical. At PETRONAS Industrial Solutions, we pride ourselves on supporting the smooth operation of your machinery.

With over 100 years of experience, we provide global lubricants to 128 countries, delivered with local and technical expertise. Our bespoke fluids have been developed to protect and prolong the working life of every element of your system, improving performance and powering progress.



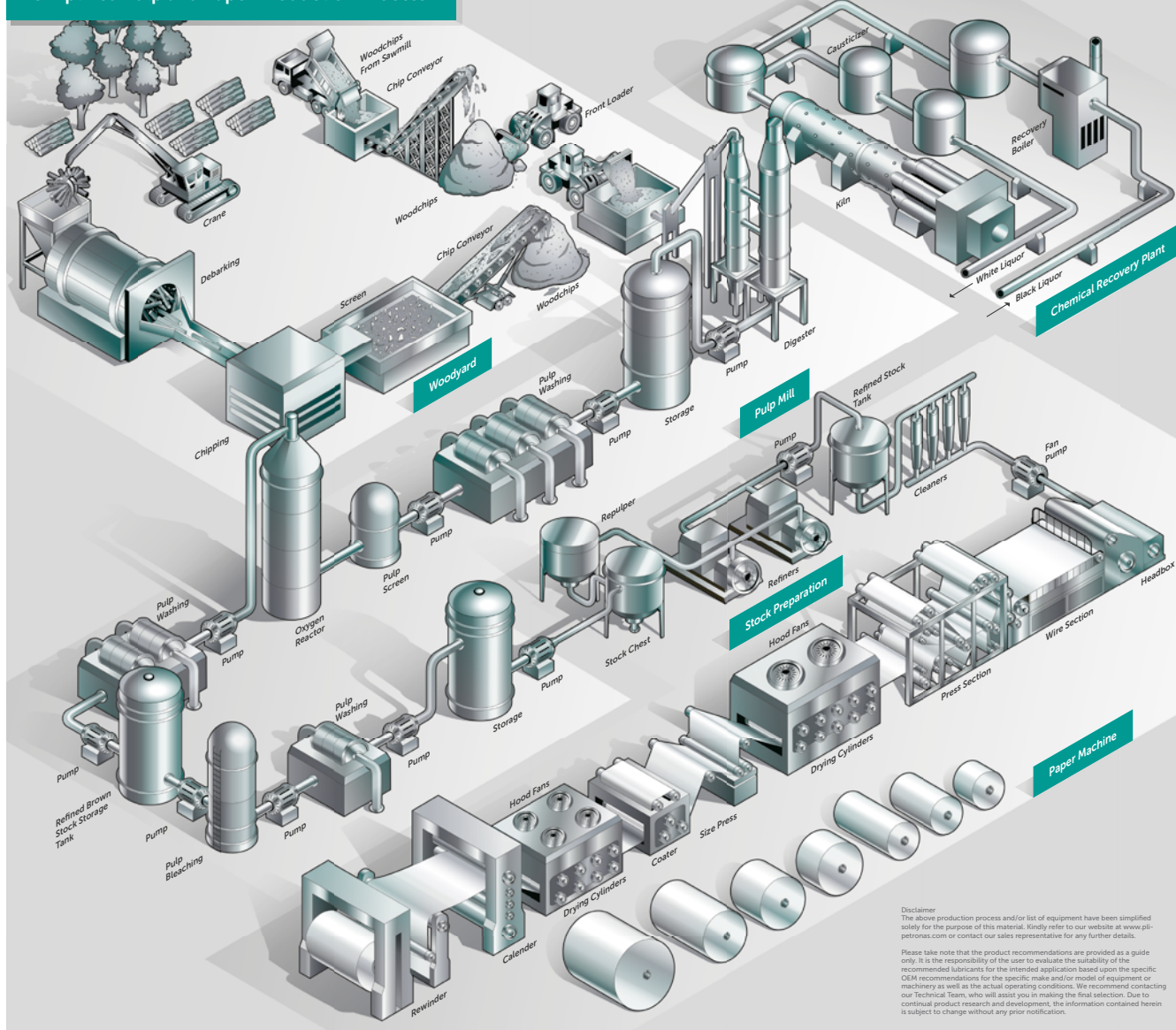
Your key to maximizing performance

With our expert knowledge and the latest advances in lubrication technologies, we have developed a comprehensive range of state-of-the-art lubricants to meet the requirements of your equipment. Contact your PETRONAS representative or visit to find out more.



PRIMARY PROCESS	EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
Woodyard	Crane & Lifting Equipment	Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSx	
		Cooling System	Coolant Fluid		PETRONAS Paraflu Up Ready	
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Engine	Engine Oil	PETRONAS Urania LD 7		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic 32, 46, 68	PETRONAS Hydraulic HV 22, 32, 46, 68	PETRONAS Hydraulic ESF 46
	Dump Trucks, Wheel Loaders, Front End Loaders	Cooling System	Coolant Fluid		PETRONAS Paraflu Up Ready	
		Engine	Engine Oil	PETRONAS Urania LD 7		
		Final Drive	Transmission Fluid			PETRONAS Grease LiCa MG XHL
		Grease Points	Grease	PETRONAS Grease LiX MEP		
	Debarking Drum	Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Chain Drive	Slideway Oil	PETRONAS Slideway 68		
		Couplings	Grease	PETRONAS Grease Li 2		
		Couplings (Oil)	Turbine Oil	PETRONAS Jenteram 32		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		PETRONAS Gear Syn PAO 150, 220, 320, 460
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680		PETRONAS Hydraulic ESF 46
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic 32, 46, 68	PETRONAS Hydraulic HV 22, 32, 46, 68	
	Wood Chipper	Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Couplings	Grease	PETRONAS Grease Li 2		
		Couplings (Oil)	Turbine Oil	PETRONAS Jenteram 32	PETRONAS Jenteram G 32, 46, 68	
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		PETRONAS Grease LiX Syn 2/220
		Grease Points	Grease	PETRONAS Grease Li EP 2		PETRONAS Gear Syn PAO 150, 220, 320, 460
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Hydraulic ESF 46
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic 32, 46, 68	PETRONAS Hydraulic HV 22, 32, 46, 68	

Simplified Pulp and Paper Production Process



PRIMARY PROCESS	EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
Woodyard	Chip Conveyors	Bearings	Grease	PETRONAS Grease LIX EP 2/380		
		Couplings	Grease	PETRONAS Grease Li 2		
		Conveyor Back Stop	Grease	PETRONAS Grease Li 2		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		PETRONAS Gear Syn PAO 150, 220, 320, 460
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	
	Screens	Bearings	Grease	PETRONAS Grease LIX EP 2/380		
		Chains / Sprockets	Slideway Oil	PETRONAS Slideway 68		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
	Digester	Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
		Grease Points	Grease	PETRONAS Grease Li EP 2		PETRONAS Grease LiX Syn 2/220
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic 32, 46, 68	PETRONAS Hydraulic HV 32, 46, 68	PETRONAS Hydraulic ESF 46

PRIMARY PROCESS	EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
Pulp Mill	Pulp Washer	Bearings (Oil)	Circulating Oil	PETRONAS Circula 150, 220, 320	PETRONAS Circula PM 150, 220	PETRONAS Circula Syn 320
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn P AO 150, 220, 320, 460
		Repulper and General Bearings	Grease	PETRONAS Grease LiX EP 2/380		
	Pulp Bleaching Towers	Grease		PETRONAS Grease LiX EP 2/380		
		Electric Motor Bearings	Gear Oil	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
Stock Preparation	Pulp storage (Pumps and Agitators)	Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
	Repulper	Couplings	Grease	PETRONAS Grease Li 2		
		Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
	Mixing and Machine Chest	Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
	Refiners	Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Bearings (Oil)	Circulating Oil	PETRONAS Circula 150, 220, 320		PETRONAS Circula Syn 320
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Geared Coupling	Grease	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	
	Refined Stock Chest	Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
Machine	Paper Machine	Calendar Roll Bearing (Oil)	Circulating Oil	PETRONAS Circula 150, 220, 320	PETRONAS Circula PM 150, 220	PETRONAS Circula Syn 320
		Dryer Bearings	Circulating Oil	PETRONAS Circula 150, 220, 320	PETRONAS Circula PM 150, 220	PETRONAS Circula Syn 320
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Fans (Oil)	Circulating Oil	PETRONAS Circula 150, 220, 320	PETRONAS Circula PM 150, 220	PETRONAS Circula Syn 320
		Fans - Hood	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Fans - Trim	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV 22, 32, 46, 68	PETRONAS Hydraulic ESF 46
		Press Roll Bearings	Grease	PETRONAS Grease LiX EP 2/380		
		Rewind Stand Bearings (Pope Reel)	Grease	PETRONAS Grease LiX EP 2/380		
		Roll Drive Gearbox	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
		Rope Pulley Bearing	Grease	PETRONAS Grease Li 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Steam Rotary Joints	Grease	PETRONAS Grease LiX MEP		
		Vacuum Pumps	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Wire Roll Bearings	Grease	PETRONAS Grease LiX EP 2/380		

PRIMARY PROCESS	EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
Chemical Recovery Plant	Kiln	Auxiliary Disel Engine	Engine Oil	PETRONAS Urania LD 7		
		Auxiliary Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
		Couplings	Grease	PETRONAS Grease Li 2		
		Cooling System	Coolant Fluid		PETRONAS Paraflu Up Ready	
	Recovery Boiler	Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
		Kiln Support Roller Bearings	Circulating Oil			PETRONAS Circula Syn 320
		Thrust Bearings	Circulating Oil			PETRONAS Circula Syn 320
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2		
		Forced and Induced Draft Fan Bearings	Grease		PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Forced and Induced Draft Fan Bearings (Oil)	Circulating Oil		PETRONAS Circula PM 150, 220	PETRONAS Circula Syn 320
		Precipitator Gearbox/ Reducer	Gear Oil	PETRONAS Gear MEP 68, 100, 150, 220, 320, 460, 680	PETRONAS Gear FL 150, 220, 320	PETRONAS Gear Syn PAO 150, 220, 320, 460
		Precipitator Support Bearings	Grease		PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Primary Air Fan Bearings	Grease		PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Secondary Air Fan Bearings	Grease	PETRONAS Grease Li 2		PETRONAS Grease LiX Syn 2/100

Expert Solutions

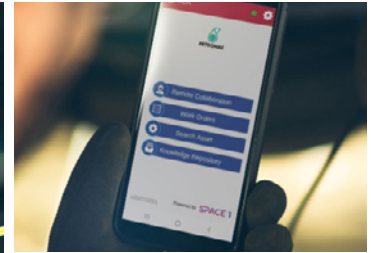
Your progress. Our priority.

By partnering with you to solve the problems you face today and tomorrow, we can help you move ahead and develop your business. Our insight-driven services help you improve reliability, reduce your operating costs and free up your potential – all because we share your goals and priorities. Expert Solutions from PETRONAS is your secret weapon in your mission to do more, use less and grow faster. It's how our passion for progress can help take you to an exciting and more sustainable future.

Equipment

Downtime is the enemy of progress. With predictive maintenance and support for your equipment and fluids, we can identify problems before they take hold – so you can plan ahead and focus on success.

- Diagnostics - Oil condition monitoring
- Fluid recommender



Operations

With so much happening in your business, it's easy to lose sight of what matters. Our Expert Solutions use tools, services and support to help you achieve greater progress more quickly – and improve efficiency while reducing operational costs.

- Fleet survey
- Fluid-i

People

With the right knowledge in your team, you can progress further, faster. That's why we work with your people to build their skills and help them work more effectively day in, day out.

- Technical training programme





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