

Product	Key Benefits	Key Application	Fluid Technology	Performance Levels
Heavy duty oil circulating systems				
PETRONAS Circula Syn	<ul style="list-style-type: none"> Excellent water separability Over 4x longer oil life* Excellent anti-wear protection Excellent resistance to sludge formation 	Circulating systems for paper machine dryer bearings, calendars, winders, enclosed gear drives, large anti-friction and journal bearings	Synthetic	-
PETRONAS Circula PM	<ul style="list-style-type: none"> Excellent water separability Over 3x longer oil life* Excellent anti-wear protection Excellent resistance to sludge formation 	Lubrication of bearings, gears and auxiliary equipment in the wet and dryer sections of paper machines Heavy duty circulating system with gears and bearings	Mineral	Meets: DIN 51524 Part II HLP (2006) DIN 51517 Part II CL and Part III CLP (2009) Voith VN 108 Wet End (2012) Voith VN 108 Dry End (2012) Voith VN 108 Press Rolls (2012) Voith VN 108 Hydraulic Rolls (2012) SKF Dry End Requirements (2006)
PETRONAS Circula	<ul style="list-style-type: none"> Very good water separability Very good anti-wear protection Over 2x longer oil life* 	Various heavy duty circulating systems requiring high anti-wear properties Circulating systems including plain or rolling-element bearings and hydraulics	Mineral	DIN 51524 - 2 ISO 11158 HM
Steel mill, oil circulating systems				
PETRONAS Circula Mill NT	<ul style="list-style-type: none"> High water separability Long oil life Excellent anti-wear & EP protection 	MORGOIL® No-Twist steel mill circulating systems MORGOIL® No-Twist dual steel mill circulating systems	Mineral	MORGOIL® No-Twist Mill
PETRONAS Circula Mill	<ul style="list-style-type: none"> Excellent water separability Long oil life High anti-wear protection 	MORGOIL® circulating systems requiring high quality circulating oils	Mineral	MORGOIL® Advanced

* vs minimum requirements of ISO 11158 HM fluids based on TOST (ASTM D943)



CIRCULATING OILS

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Get the most out of your circulating systems

Circulating oil systems provide a continuous flow of lubricants to bearings, gears and other large industrial applications. They operate in increasingly challenging environments where high temperatures, contamination and extended oil drain is the norm.

PETRONAS Industrial Solutions offers circulating oils that reduce maintenance costs, even when equipment is pushed to its limits. We've formulated the **PETRONAS Circula Series** to be high performing, anti-wear circulating oils specially developed for heavy duty circulating systems, including plain or rolling element bearings and hydraulics. They provide high thermal stability, excellent water separation and resistance to sludge formation.

By partnering with you to solve the problems you face today and tomorrow, we can help you move ahead and develop your business. Together with our insight-driven services, we'll help you improve reliability, reduce your operating costs and free up your potential – all because we share your goals and priorities.



Strengthening progressive businesses from within

As the world comes together to tackle the climate crisis, businesses need strong partners to help them develop the resilience they need to progress and grow in sustainable ways. **PETRONAS Industrial Solutions** works as one with our customers to strengthen your operation from within, developing a deep understanding of your needs and delivering against them with innovative services and energy-efficient solutions that set a clear path to a carbon neutral future. Together, we drive industrial resilience and deliver sustainable performance.

Your key to maximizing performance

We've developed a comprehensive portfolio of industrial circulating oils that serves every type of circulating system. Choose the right product for your application and take the effectiveness of your circulating systems to the next level.

		Heavy duty oil circulating systems	Steel mill oil circulating systems
Increasing performance and protection Improving uptime and lowering maintenance costs	SUPREME	PETRONAS Circula SYN <ul style="list-style-type: none"> Excellent water separability Over 4x longer oil life* Excellent anti-wear protection Excellent resistance to sludge formation 	
	PREMIUM	PETRONAS Circula PM (Paper Machine) <ul style="list-style-type: none"> Excellent water separability Over 3x longer oil life* Excellent anti-wear protection Excellent resistance to sludge formation 	PETRONAS Circula Mill NT <ul style="list-style-type: none"> High water separability Long oil life Excellent anti-wear & EP protection
	STANDARD	PETRONAS Jenteram <ul style="list-style-type: none"> Very good water separability Very good anti-wear protection Over 2x longer oil life* 	PETRONAS Circula Mill <ul style="list-style-type: none"> Excellent water separability Long oil life High anti-wear protection
	BASIC	Kindly consult PETRONAS sales and technical services for recommendations.	



Helping you develop resilience for sustainable growth

PETRONAS Lubricants International is part of the PETRONAS Group. Our approach to fluids is to focus on whole system performance and prolong the working life of your vehicle or machine's system. Our world class technologists strive to develop lubricants that lead the field and earn the all important endorsements of leading OEMs. We're passionate about helping our customers stay focused on their progress no matter what and provide the services and support needed to overcome the challenges of today and tomorrow.