

# Product Data Sheet



## MG3DF™

### High Efficiency Base Fluid

MG3DF™ is a synthetic drilling base fluid derived from Low Sulphur Waxy Residue (LSWR) feedstock. It delivers competitive advantage in the ever-challenging drilling environment and is safe to be used, with minimal impact on health, safety and environment.

#### Applications

MG3DF™ combines low aromaticity with a narrow boiling range as well as exceptional thermal stability and a low pour point, making it versatile for conventional, high-pressure, high-temperature (HPHT) and deep-water application.

#### Features and Benefits

- Colorless, highly paraffinic hydrocarbon mixture
- Narrow boiling range
- High flash point
- Superior low-temperature fluidity
- Optimum viscometrics for better ECD control, faster ROP and lower risk of circulation events

#### Properties

Properties	Test Methods	Units	Specification Value	Typical Value
Appearance	Visual	-	Bright & Clear	Bright & Clear
Density @ 15°C	ASTM D1298 / D4052	kg/L	≥ 0.805	0.82
Kinematic Viscosity @ 40 °C	ASTM D445	mm <sup>2</sup> /s cSt	≤ 2.4	2.3
Distillation: IBP FBP	ASTM D86	°C °C	≥ 200 ≤ 320	210 305
Pour Point	ASTM D97 / D5950	°C	≤ -30	< -42
Flash Point	ASTM D93	°C	≥ 90	94
Aniline Point	ASTM D611	°C	≥ 76	80
Aromatics Content	PETRONAS Inhouse / IP 391	mass %	≤ 0.5	< 0.04
	US EPA 1654A	mg/kg	-	< 1
	Grimmer PAH-0397	mg/kg	-	< 0.01

Marketed by,  
PETRONAS Lubricant International (PLI)  
Base Oil Division

Further information is available at [www.pli-petronas.com](http://www.pli-petronas.com)

