

MG3 D90

High Quality Dearomatized Solvent

MG3 D90 Dearomatized Solvent is a specialty hydrocarbon, manufactured from highly paraffinic PETRONAS Low Sulphur Waxy Residue (LSWR) through a proprietary, severe hydrotreating, wax isomerization process and hydrofinished to a low aromatic, colourless liquid.

- CAS registry number: 64742-47-8
- EC number: 265-149-8
- EU – REACH registration number: 01-2119484819-18-xxxx

MG3 D90 is registered by NSF for categories H1 (use as lubricant with incidental food contact) and HX-1 (ingredient for use in lubricants with incidental food contact).

Applications

MG3 D90 combines low aromaticity and a narrow boiling range with excellent low-temperature fluidity and a superior flash point, making it suitable for use in various general industrial applications, such as cleaning solvents, spray oils and metal working fluids.

Features and Benefits

- Colourless highly paraffinic hydrocarbon mixture
- Very low aromatic content
- High flash point
- Superior low-temperature fluidity

Properties

Properties	Test Methods	Units	Specification Value	Typical Value
Appearance	Visual		Br. & Cl.	Br. & Cl.
Density @ 15°C	ASTM D 1298 / D 4052	kg/L	≥ 0.805	0.813
Viscosity at 20 °C at 40 °C	ASTM D 445	mm ² /s	- ≤ 2.5	3.4 2.3
Distillation	ASTM D 86			
IBP		°C	≥ 190	216
10%		°C		229
50%		°C		245
90%		°C		272
FBP		°C	≤ 330	291
Pour Point	ASTM D 97 / D 5950	°C	≤ -39	< -42
Flash Point	ASTM D 93	°C	≥ 90	94
Aniline Point	ASTM D 611	°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

Product Data Sheet



PETRONAS

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Properties	Test Methods	Units	Specification Value	Typical Value
Saturates Content	ASTM D 2007	mass %	-	> 99
Sulphur (S)	ASTM D 5453	mg/kg	-	1
Acid Number	ASTM D 974	mg KOH/g	-	< 0.02
Color Saybolt	ASTM D 156	-	-	+30
Refractive Index @ 20°C	ASTM D 1218	-	-	1.4479
UV Abs. @ 260-350 nm	ASTM D 2269	Abs. / cm	-	< 0.1
Auto-ignition Point	ASTM E 659	°C	-	236
Copper Corrosion (1 hr. @ 100 °C)	ASTM D 130	-	-	1a
Carbonizable Substances	ASTM D 565	-	-	pass
Vapour Pressure @ 20°C	Reid	kPa	-	< 0.25

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

Further information is available at www.pli-petronas.com

