

## Oak Palm Base 6080

### High performance trimethylolpropane complex ester lubricant base fluid

Oak Palm Base 6080 is an ISO 68, low viscosity, Group V, trimethylolpropane complex ester with superior lubricating properties, high viscosity index, excellent hydrolytic and oxidative stability. Synthesised from natural oils, Oak Palm Base 6080 is renewable and biodegradable.

#### Typical Characteristics

Measurement	Unit	Typical value
Visual appearance		Clear liquid
Colour Gardner 1983		4.0
Density @ 20°C	g/ml	0.920
Kinematic viscosity @ 40°C	mm <sup>2</sup> /s	68
Kinematic viscosity @ 100°C	mm <sup>2</sup> /s	11.5
Viscosity index		182
Acid value	mg KOH/g	0.8
Saponification value	mg KOH/g	182
Iodine value	g/100g	84
Hydroxyl value	mg KOH/g	11
Cloud point	°C	-20
Pour point	°C	-39
Flash point (COC)	°C	320
Oxidation stability (RBOT)	Minutes	24
Renewability	%	100
Biodegradability OECD 301B	%	100 – 12 day period

#### Features and benefits

Features	Benefit
Biodegradability	Compliance with local environmental regulation
Effective at low treat rates	Efficient formulations
Good lubricity	Improved surface finish, increased efficiency
High viscosity index	Temperature stability
High flash point	Safer operation
Hydrolytic stability	Longer life, increased productivity
Low misting	Healthier operation environment
High renewability content	Reduced impact on limited natural resources

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### Applications and recommended uses

Oak Chemicals recommends this product is used at the following typical treat rates:

- Ferrous metal rolling oil: 5 – 90%
- Hydraulic fluid: up to 98%
- Gear oil: up to 96%
- Air compressors: up to 99%
- Metalworking fluids – neat and water soluble cutting and grinding: 5 – 90%

### Sales and technical support

With experience working with lubricant industry formulators, Oak Chemicals technical specialists are able to offer expertise and support in selecting the most effective products for your application. For further or advice, please contact your local Oak Chemicals sales office, visit our website [www.oakchemicals.com](http://www.oakchemicals.com) or email [management@oakchemicals.com](mailto:management@oakchemicals.com)

For complete safety, health, personnel protection and first aid information, refer to the Material Safety Data Sheet (MSDS) which can be requested by website or phone Oak Chemicals.

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