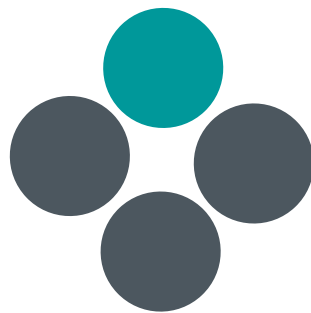


VG



oléotechnique®

Precision



## Precision VG

*Lubricants for stock removal*

- VG 15** Precision machining
- VG 30** Standard machining
- VG 40** machining on extra-hard metals

*Agrochemical lubricants*  
*Mineral oil substitute*

# Precision VG

*Lubricants for stock removal*

## *Agrochemical lubricants Mineral oil substitute*

Since 1972, when **OLEOTECHNIQUE** initiated and invented evanescent fluids (patent N°7202593), demand for this type of product has been in constant growth.

While evanescent fluids provided the solution for numerous set-forming issues and improved production costs by eliminating or minimising degreasing operations, operators are now confronted with numerous legal issues associated to the use of such products:

- ✓ Occupational disease
- ✓ Sensitisation or allergenic cutaneous aspect
- ✓ VOC emissions
- ✓ ATEX regulations concerning explosive vapours
- ✓ Environmental aspect in the event of accidental spillage and above all, the economic impact of the price upsurge in petrol products.

### PRECISION VG properties

## *Higher efficiency*

**PRECISION VG** has excellent properties: a very strong polarity, an adapted viscosity and an exceptional wetting and covering power enabling natural production of a lubricating and unctuous film in severe regime of production. Its excellent lubrication properties ensure sufficient sliding capacity when a mixed or limited

### *PRECISION VG improves overall fluid performance levels :*

- ✓ Extension of tool life-span
- ✓ Increase in productivity
- ✓ Improvement of the surface aspect of pieces

## No Toxicity

**PRECISION VG** considerably improve hygiene conditions, particularly because they do not emit vapours at ambient temperature. They are non irritant, non sensitising and has very little drying effect on skin. They necessitate no specific medical monitoring measures and do not require inclusion in the chart of professional diseases. Moreover, their formulations do not contain any substances that are classified as explosive, oxidising, extremely flammable, highly flammable, carcinogenic, mutagenic, toxic, toxic for reproduction, harmful, irritant, sensitising, corrosive or dangerous for the environment in compliance with the Decree of November 9 2004.

## No risk of explosion



Contrary to the majority of solvent vectors for evanescent oil, **PRECISION VG** are totally non-flammable and non-explosive. They are not concerned by ATEX zone classification, in compliance with the Decree of July 8 2003

## Free of VOC's

**PRECISION VG** allow immediate clearance with regards the Decree of May 29 2000 concerning VOC emissions. Their vapour pressure is lower than the limit fixed by European Directive 1999/13/CE concerning the reduction of Volatile Organic Compound emissions

## 100% Biodegradable

**PRECISION VG** are fully and rapidly biodegradable (according to OECD 301 B and OECD 302 C tests). Their use protects the environment and neighbouring populations in the event of accidental spillage. It require no authorisation for use from administrative authorities (Decree 2002-680).

## PRECISION VG properties

### Other properties

**PRECISION VG** are compatible with all material, metals, paints, plastics, elastomers and rubbers

**PRECISION VG** leave a small residual film which allows welding.

**PRECISION VG** provide temporary inter-operation protection for up to one month in sheltered damp atmosphere (according to RENAULT 63 1861 test method).

**PRECISION VG** are 100% compatible with alkaline degreasing, according to RNUR test method.

**PRECISION VG** do not stain steels, stainless steels, light and copper alloys.

### Applications

**PRECISION VG 15** was developed for precise bar turning. It is also largely used for the brass bar turning. Its polarity also allows all operations of drilling, milling, tapping and sawing on light alloys. It can be used for stripping and lapping on treated steels.

**PRECISION VG 30** is used for bar turning, milling, drilling and classical tapping on low-alloy steels.

**PRECISION VG 40** is usable on bar turning, milling, boring, shaving, sawing, threading operations on high-alloy steels including stainless steels. It is also adapted to gear trimming operations.

PRECISION VG



# Typical physico-chemical properties

Properties	Standards	Units	Values		
			PRECISION VG 15 <i>Precise machining</i>	PRECISION VG 30 <i>Standard machining</i>	PRECISION VG 40 <i>Machining on extra-hard metals</i>
Appearance	Visual	-	Fluid	Fluid	Fluid
Colour *	Visual	-	Yellow	Yellow	Yellow
Odour	-	-	Light, distinctive	Light, distinctive	Light, distinctive
Density at 25 °C	NF EN ISO 12185	Kg/m <sup>3</sup>	902	911	923
Kinematic viscosity at 40 °C	NF EN ISO 3104	mm <sup>2</sup> /s-1	15	30	40
Surface tension at 25 °C	ASTM D 971	Dynes/cm	28	28	28
Acid index	DIN EN 14104	mgKOH/g	< 3	< 5	< 6
Copper foil corrosion, 24 hrs, 100 °C	ASTM D 4048	Score	1a	1a	1b
Four ball SHELL test, mould Ø	ASTM D 2266	mm	0,42	0,40	0,35
Four ball SHELL test Welding load	ASTM D 2596	N	1600	1850	4600
Flash point Closed cup	INF EN 22719	°C	None	None	None
Freezing point	NFT 60 105	°C	- 5	- 5	- 5
VOC content	-	%	0	0	0
Solvent content	-	%	0	0	0
Aromatic content	-	%	0,0	0,0	0,0
Benzene content	-	ppm	0	0	0
Chlorine content	-	%	0	0	0
Sulphur content	-	%	0	0	< 2

\* These products are made using natural vegetable oil esters. A constant colour cannot therefore be specified since it may vary depending on the product's source, production site and pre-harvest climate. A difference in colour, even a significant one, will not alter the product's performance.

Container : 1000 L



Drum : 200 L

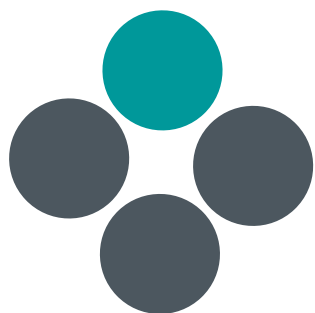


Small drum : 25 L



## Precautions of use

Store under cover in a temperate environment before use. Carry out compatibility tests before using on sensitive materials and in the case of extensive contact with paint with little cross-linking.



# oléotechnique®

ISO 9001 VERSION 2000 (1993)

OHSAS 18001 VERSION 1999 (2005)

ISO 14001 VERSION 2004 (2006)

Integrated Management System (2007)



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