

## Achieving higher performance with greater purity

In today's highly challenging markets, where greater performance must combine with increasingly demanding regulatory standards, versatility and reliability become valuable formulation allies. The result of a unique distillation and purification process, Gemseal alkanes create a category apart among functional fluids, combining super utility properties with high sensory features, all with the comfort of using pure and biodegradable ingredients.



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# Gemseal

Specialty Alkanes

Experience pure efficiency



# Gemseal Hyper-functional fluids

Gemseal is a comprehensive range of alkanes dedicated to personal care. Perfectly defined, each with a specific narrow cut, they give access to a comprehensive palette of viscosity to address all types of Formulas from skincare, hygiene and make up to hair care and sun products.

## Pure, inert and versatile

Cristal clear, stable to UV rays and temperature, and chemically stable, the Gemseal range offers the comfort of perfectly inert functional fluids.

Solvent, dispersant or wetting agents, their structure helps solve many challenging formulation issues. Gemseal have not only proven to be very good co-formulants to silicones or isoparaffins but also serious functional and sensorial alternatives.

Excellent solubilizers for conventional UV filters, they can also be used as co-solvents to fine tune the texture of sun protection formulas.

Application studies have shown their excellent compatibility with various emulsifying systems, vegetable oils, fats and silicones.

# Gemseal High sensory designers

The softness, easy spreading qualities, dry and silky feel combined with a supremely comfortable and breathing film-forming effect are the main characteristics of Gemseal emolliency. The comprehensive range gives you the freedom to precisely monitor your formula's rendering.

## Gemseal 25

A volatile product with a dry and diaphanous feel and good spreading quality. Consistency-wise it represents a good alternative to cyclomethicone or isododecane.

## Gemseal 40

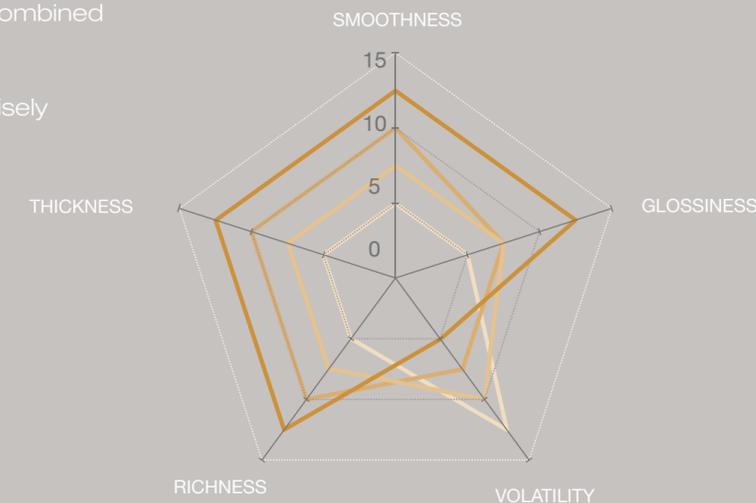
With a higher gloss than Gemseal 25, it has a dry and powdery feel. It represents a good alternative to cyclomethicone, dimethicone or isohexadecane.

## Gemseal 60

Slightly less volatile, it has a more generous smoothness. It can easily replace dimethiconol, dimethicone or isohexadecane.

## Gemseal 120

The highest gloss in the range, it has a rounded and softer feel than the others. Richer and more unctuous, it still provides a light and delicate experience. It can be a good substitute to low viscosity white mineral oils or low viscosity hydrogenated polyisobutene.



- GEMSEAL 25
- GEMSEAL 40
- GEMSEAL 60
- GEMSEAL 120

# Gemseal High-definition profiles

## Ultra pure and biodegradables

Gemseal are free of volatile aromatic compounds, heavy metals, phthalates, CMR, or allergens. Their profile ensures optimal safety:

- Non irritant to skin and eye (OECD guideline N°404 and OECD guideline N°405)
- Non mutagenic (B. N. AMES Method)
- Non comedogenic (Clinical study)
- No oral and dermal toxicity (OECD guideline N°401 and OECD guideline N°402)
- Non-occlusive
- Hypoallergenic (Repeated patch test)

All Gemseal products are biodegradable (OECD 301F).

## A comprehensive range

	Gemseal 25	Gemseal 40	Gemseal 60*	Gemseal 120
Viscosity (20°C) mm2/s (cSt)	3.5	7	11	21,5
Viscosity (40°C) mm2/s (cSt)	2.5	4.0	6.0	11
Refractive index (20°C)	1.450	1.4502	1.4503	1.456
Density (15°C)	810	810	815	825
INCI/JCI	C13-15 alkane	C15-19 alkane	C18-21 alkane	C21-28 alkane

\*if resistance to cold temperatures is needed, Gemseal 70 is available with similar features.