

Personal Care

AAK

enhancing
the power
of nature



Akogel™ & Akogel Plus™

Eco-friendly, moisturising vegetable gels for skin care,
hair care and colour cosmetic formulations

emollients

Vegetable gels for green formulations

Vegetable gels are useful when formulating cosmetics that need that extra touch of moisturisation without the use of petrolatum or other mineral oil based ingredients. They are designed to give a melting profile that provides semisolid texture at ambient temperatures along with moisturising properties at body temperature. They have good oxidative stability without added antioxidants, facilitating the formulation of long-lasting, safe cosmetics with a luxurious feel.

Akogel™ and Akogel Plus™

These ingredients are made from stable vegetable oil with high melting vegetable fats added, offering simple crystallisation and high texturising capacity. They are similar to petrolatum in texture and consistency, but slightly more polar as they are based on triglycerides. They differ slightly in melting behaviour, making it possible to formulate a wide range of skin care products and extending their uses into anhydrous

balms and sticks. Rapid absorption results in a soft and velvety skin feel, as well as high, non-occlusive moisturisation. Akogel and Akogel Plus are manufactured using food ingredient processing methods, readily biodegradable, and approved by Ecocert for natural and organic cosmetics.

Applications

Skin care emulsions for body, face and hands is the main application area. Stability in combination with high moisturising capacity and high purity makes these vegetable gels ideal tools when formulating products for sensitive and dry skin, as well as for infants. May also be used in rinse-off hair conditioners and creamy shower gels to provide softness and moisturising properties.

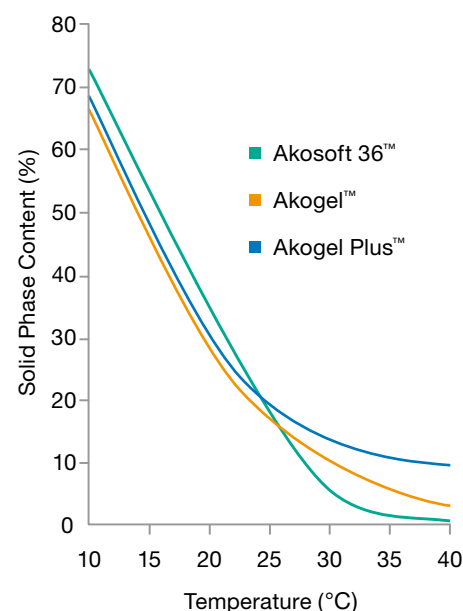
- ◆ Long shelf-life formulations
- ◆ Mild moisturisation
- ◆ Petrolatum alternatives from renewable sources

Application advice – Akogel™ & Akogel Plus™

Skin care			Hair care			Colour cosmetics	
Light lotions and serums	Lotions and creams	Creams and butters	Shampoos	Conditioners	Styling & treatments	Lip balms	Lipsticks
1-3%	2-5%	2-15%	0.5-1.0%	1-2%	2-4%	2-15%	2-5%
Emollient	Emollient & moisturiser	Emollient & moisturiser	Moisturiser & gloss improver	Conditioner & moisturiser	Conditioner & moisturiser	Emollient	Emollient

Product name	Akogel™	Akogel Plus™
INCI name	Hydrogenated vegetable oil	Hydrogenated vegetable oil
Product group	High Stability Base Emollients	High Stability Base Emollients
Physical form 20 °C	Semi-solid	Semi-solid
Regulatory status	Cosmetic Regulation EC 1223/2009 REACH Exempted (Annex IV, SDA11)	Cosmetic Regulation EC 1223/2009 REACH Exempted (Annex IV, SDA11)
Approvals	Ecocert	Ecocert
Melting point (°C)	38-40	46-48
Appearance	Off-white, semisolid paste	Off-white, semisolid paste
Iodine Value	50-58	44-52
Oxidative stability index (h, 110 °C)	>180	>180

Melting profiles for vegetable gels



Melting profiles for vegetable gels from AAK Personal Care. See separate product guide for Akosoft 36.