

*emollient, lubricant, moisture barrier*

## Application Sheet

Alphaflow® series offers a range of Hydrogenated Polydecenes, which are excellent emollients. Alphaflows® are available in different viscosities; Alphaflow® 20 has the lowest viscosity and Alphaflow® 50 the highest.

Alphaflows® provide softness, emolliency and lubricity to formulations. They form a non-occlusive film, and they bring gloss without greasiness.

Trade Name	INCI Name
Alphaflow® 20	Hydrogenated Polydecene
Alphaflow® 30	Hydrogenated Polydecene
Alphaflow® 40	Hydrogenated Polydecene
Alphaflow® 50	Hydrogenated Polydecene

Trade Name	Main Aliphatic Hydrocarbon	Viscosity	Feel
Alphaflow® 20	C20	5-15 mPa.s	Light, silky
Alphaflow® 30	C30	15-25 mPa.s	Satiny
Alphaflow® 40	C40	20-30 mPa.s	Smooth
Alphaflow® 50	C40/50	30-45 mPa.s	Luxurious, rich

### Benefits

- soft and rich feel
- shine and glossiness
- excellent spreadability
- non-occlusive film preventing moisture loss
- pure and hypoallergenic

### Properties

- colourless, odourless and tasteless
- photostable
- constant behaviour in both hot and cold processes
- soluble in most non-polar solvents
- compatible with most cosmetic ingredients



## Application Areas

### Skin Care

In skin care products Alphaflows® are used as emollients. Alphaflows are suitable for hypoallergenic and baby care products due to their high purity.

### Sun Care

Alphaflows® are excellent emollients for sun care products as they are photostable, and as they have a very good capacity for wetting mineral UV-filters.

### Colour Care

Alphaflows® are suitable for all types of colour care applications. In colour care products they are excellent emollients with high pigment wetting capacity and they allow maximum colour development. Alphaflows can also be used as binders in powder applications.

## Formulating

Alphaflows® are suitable for all types of emulsions, and as they are branched materials, they are also ideal bases for colour dispersions. Alphaflows® can be used as bases for various treatment products such as massage oils or aromatherapy products. They are compatible with most cosmetic ingredients excluding Silicon Oils.

### Emulsions

Alphaflows® are added in the oil phase before emulsification, and they can be used in both hot and cold processes.  
Typical use level: 2-20%

### Anhydrous Systems

Alphaflows® can be added directly into anhydrous systems without heating.  
Typical use level: 2-20%

Packaging: 25kg jerry can and 160kg metal drum