

Oat[®] COM USP

Extruded Colloidal Oatmeal

Technical Data Sheet

App	Name	Monograph ID	%	CAS	EINECS	FDA VCRP
INCI	<i>Avena sativa</i> (Oat) Kernel Flour	9314	100%	134134-86-4	310-127-6	<i>Avena sativa</i> (Oat) Kernel
OTC	Colloidal Oatmeal	6522	100%	134134-86-4		Colloidal Oatmeal



A proven anti-aging ingredient delivering a non-greasy and luxurious feel to skin care products.

In a 90 day consumer trial where Oat* COM USP was incorporated into facial cream at 3%

The rapid and sustainable anti-aging effects were shown as:

- **86%** of the subjects felt that Oat[®] COM USP consistently left their skin feeling moisturised
- **80%** felt Oat[®] COM USP created a feeling that the skin was silky soft and soothed the skin
- **79%** of subjects agreed Oat[®] COM USP nourished their skin

The advanced textural properties were shown as:

- **94%** of the subjects felt Oat[®] COM USP absorbed in the skin easily
- **96%** felt there was no tacky after feel
- **89%** felt that the product containing Oat[®] COM USP glided easily onto the skin and did not leave a shiny surface

Oat[®] COM USP is an optimised extruded colloidal oatmeal manufactured under an approved patented process to the US Pharmacopeial Standard and produced from selected high beta-glucan oats grown using sustainable farming practices. It is a cost-effective ECOCERT/ COSMOS approved natural cosmetic ingredient, demonstrating anti-aging, anti-irritant, cleansing and moisturising properties.

Ingredient Properties

Oat[®] COM USP is manufactured by a patented extrusion process resulting in:

- Optimised activity and functionality
- Excellent microbial purity
- Very small particle size imparting textural properties
- Absorbs 30% more oil than standard Colloidal Oatmeal
- High free amylose content extends stability
- Enhanced bioavailability of phytochemicals
- Enhanced rheological characteristics
- Typical beta- glucan content 5-6%

Application Benefits

- Excellent textural characteristics giving smooth creams
- Reduces 'greasiness' and imparts luxuriant silky feel
- Enhanced colloidal activity at a wide range of temperatures increasing the ease of formulation
- Effective anti-irritant, anti aging and moisturiser
- Skin pH buffering properties
- Typical Inclusion: 3% - 10%

This product meets the US FDA Monograph 2003: 'Colloidal Oatmeal is classified as a skin protectant by the FDA according to 21 CFR Part 310 and 347 in Skin Protectant Drug Product Over-the-Counter Human Use'.

* OAT[®] is the international registered trade mark of Oat Services Limited under numbers: EU008688749

Oat® COM USP contains the following actives with various beneficial activities and applications:

Oat Actives	Activity	Application
Avenanthramides	Anti-irritant and redness reduction (Anti-histamine effect similar to Tranilast). Anti-oxidant activity	Soothes and relieves dry skin
Avenacins (Saponins)	Anti-inflammatory and immuno-regulatory properties in the treatment of atopic dermatitis.	Skin cleansing properties through sebum
Flavonoids	Antioxidants	Anti-microbial
Simple & Complex Phenolics	Antioxidants, prevention of lipid peroxidation, anti-inflammatory	Anti-pruritic
Beta-Glucan	Immuno – stimulant, reduce fine lines and wrinkles, hydrating agent	Skin moisturising and wound healing
Lipids/Oils	65% triglyceride, Vitamin E, phospholipids. Effective emulsifying and antioxidant activity	Replenish skin provide pH buffering Vitamin-E precursors
Oat Peptides	Collagen and elastin promoters by stimulation of fibroblasts	Skin pH buffering maintains barrier
Starch	Adsorption and absorption properties	

Formulation Suggestion:

All Natural After-Sun Body Lotion

This natural, soft lotion leaves a highly moisturising and soothing film on the skin. Oat® COM USP helps to soothe skin that may be red, itchy or sensitive due to over exposure to the sun and provides a slightly powdery after-feel.

Method of Manufacture

- Disperse the xanthan gum in the water, when homogeneous add the other ingredients of phase A.
- Heat phases A and B separately to 78°C.
- Add A to B with paddle stirring and then homogenise for 1 to 2 minutes.
- Continue stirring and cooling and then add phase C below 45°C.
- Stir until cool.

Phase	Common / Trade Name	INCI Name	% w/w
A	Water	Aqua / Water	To 100.00
	Glycerin	Glycerin	5.00
	Dermosoft 1388 Eco	Glycerin, Aqua, Sodium Levulinate,	3.00
	Dermofeel PA-3	Sodium Phytate, Aqua	0.10
	Keltrol CG-RD	Xanthan Gum	0.20
B	Symbiomuls GC	Glyceryl Stearate Citrate, Cetearyl Alcohol, Glyceryl Caprylate	5.00
	Apricot Kernel Oil	Prunus Armeniaca (<i>Apricot</i>)	2.00
	Jjoba Oil, Colourless	Simmondsia Chinensis (<i>Jjoba</i>)	1.00
	Dermofeel Sensolv	Isoamyl Laurate	3.00
	Plantec Olive Squalane	Squalane	1.00
	Copherol F1300 G	Tocopherol	0.10
	DL-Tocopheryl Acetate	Tocopheryl Acetate	0.50
C	Trealix	Trehalose, Hydrolyzed Vegetable	2.00
	<u>Oat® COM USP</u>	<i>Avena sativa</i> (Oat) Kernel Flour	3.00

For more formulation ideas download our [formulation ebook](http://oatcosmetics.com/formulation-ideas/) from our website <http://oatcosmetics.com/formulation-ideas/>

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Release 10 0115

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