



# Specialty Micronized Powders and Exfoliants

Wax Additives for the Personal Care Industry



**MICRO POWDERS, INC.**



# Micronized Fine Powders

## Microease

Micronized synthetic waxes produced by the Fisher-Tropsch process and characterized by their high melt point and hardness. Microease grades are useful in powdered make-up applications as a press aid which also enhances the feel of the product. Microease 110S and 114S are spherical in shape and help improve lubricity and soft focus.

Properties	Microease 110XF	Microease 110S	Microease 114S
INCI Name	Synthetic Wax**	Synthetic Wax**	Synthetic Wax**
Color	White	White	White
Melting Point (°C)	108-113	108-113	110-116
Density @25°C (g/cc)	0.94	0.94	0.96
Mean Particle Size (µm)	4.5-6.5	6.0-8.0	6.0-8.0



## Microslip®

Micronized powders characterized by their excellent feel and lubricity. These powders are produced from 100% virgin grade polytetrafluorethylene except for the Microslip 245 which is produced from polyvinylidene difluoride (PVDF). Microslip products enhance the texture of cosmetic formulations and reduce the oily feel associated with creams and lotions. They can also act as an SPF booster.

Properties	Microslip 245	Microslip 519	Microslip 519L	Microslip 684S	Microslip 1260
INCI Name	Polyvinylidene Difluoride	PTFE	PTFE	PTFE	PTFE/TiO <sub>2</sub>
Color	White	White	White	White	White
Melting Point (°C)	159-163	>316	>316	>316	>316
Density @25°C (g/cc)	1.8	2.2	2.2	2.2	2.2
Mean Particle Size (µm)	5.0-6.0	5.0-6.0	11.0-13.0	2.0-4.0	5.0-6.0

## Micropoly®

Micronized polyethylene powders designed to provide a creamy feel to cosmetic formulations. They also offer excellent adhesion, enhanced structure and improved binding. Micropoly 1160S and Micropoly 250S are spherical in shape for improved lubricity, feel and soft focus properties.

Properties	Micropoly 1160S	Micropoly 200	Micropoly 220	Micropoly 220L	Micropoly 250S
INCI Name	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyethylene
Color	White	White	White	White	White
Melting Point (°C)	109-112	109-111	123-125	123-125	129-131
Density @25°C (g/cc)	0.92	0.95	0.96	0.96	0.97
Mean Particle Size (µm)	15.0-20.0	6.0-8.0	7.0-9.0	8.0-10.0	2.0-4.0

## Mattewax

Micronized, highly branched polypropylene waxes characterized by their high molecular weight. Mattewax grades can reduce the sheen of formulations, providing a smooth matte finish. MatteBlack 523 is permanently colored with Black 2.

Properties	Mattewax 511	MatteBlack 523
INCI Name	Polypropylene	Polypropylene Black 2 Calcium Carbonate
Color	White	Black
Melting Point (°C)	160-170	160-170
Density @25°C (g/cc)	0.86	0.86
Mean Particle Size (µm)	10.0-15.0	10.0-15.0

## Microsilk®

Micronized combinations of polyolefin and polytetrafluoroethylene (PTFE). These proprietary formulations offer a synergistic combination of properties. The powders provide the creamy feel of the polyolefin with the slip from the PTFE. Microsilk 920 will also provide a smooth, silky matte finish.

Properties	Microsilk 418	Microsilk 419	Microsilk 920
INCI Name	Polyethylene PTFE Synthetic Wax**	Polyethylene PTFE	Polypropylene PTFE
Color	White	White	White
Melting Point (°C)	115-118	121-124	160-170
Density @25°C (g/cc)	0.99	1.10	1.14
Mean Particle Size (µm)	10.0-12.0	9.0-11.0	7.0-11.0

# Micronized Fine Powders



## Microsorb and Naturesorb

These unique oil absorbing powders have very high maximum oil absorption that helps the skin stay fresh looking all day. Microsorb also provides soft focus and line-filling properties to help create flawless looking skin with a smooth and silky feel. Naturesorb 1000 utilizes all-natural carnauba wax to provide the same oil absorbency properties of Microsorb as well as increased adhesion.

Properties	Microsorb 944S	Microsorb 988S	Naturesorb 1000
INCI Name	Polyethylene/Calcium Silicate/Silica	Synthetic Wax**/Calcium Silicate/Silica	Copernicia Cerifera (Carnauba) Wax /Calcium Silicate
Color	White	White	Off-White
Melting Point (°C)	108-112	110-114	83-86
Density @ 25°C (g/cc)	1.27	1.31	1.29
Mean Particle Size (µm)	27.0-31.0	22.5-26.5	27.0-31.0

## Microcare

Finely micronized powders that utilize natural and naturally derived waxes such as prime #1 yellow carnauba and montan waxes. They impart excellent lubricity and provide a smooth feel with increased adhesion and hydrophobic properties. Microcare 350 is 100% micronized carnauba wax powder that is Ecocert approved and used in many all-natural products.

Properties	Microcare 300	Microcare 310	Microcare 325	Microcare 350 * 	Microcare 710	Microcare 730 
INCI Name	Copernicia Cerifera (Carnauba) Wax Polyethylene	Copernicia Cerifera (Carnauba) Wax Polyethylene	Copernicia Cerifera (Carnauba) Wax Synthetic Wax	Copernicia Cerifera (Carnauba) Wax	Copernicia Cerifera (Carnauba) Wax Polyethylene PTFE	Glycol Montanate
Color	Off-White	Off-White	Off-White	Slightly Yellow	Off-White	Off-White
Melting Point (°C)	110-114	107-113	109-114	83-86	119-124	82-88
Density @25°C (g/cc)	0.96	0.97	0.97	0.99	1.10	1.01
Mean Particle Size (µm)	4.5-5.5	4.0-6.0	4.5-5.5	6.0-8.0	4.0-6.0	7.0-9.0

## Naturesoft

All-natural micronized powder produced from bio-derived and renewable resources. Naturesoft 800 provides superior binding properties, high oil absorption, soft feel and more formulating flexibility in color cosmetics and skincare formulations.

Properties	Naturesoft 800
INCI Name	Cellulose
Color	White
Melting Point (°C)	N/A
Density @25°C (g/cc)	1.5
Mean Particle Size (µm)	7.0-12.0

## Ecosoft®

Micronized powders produced from bio-derived and renewable resources. These powders are designed to provide increased slip as well as enhanced texture to cosmetic and personal care formulations.

Properties	Ecosoft 608 **	Ecosoft 608XF **	Ecosoft 611 **
INCI Name	Polylactic Acid	Polylactic Acid	Polylactic Acid Copernicia Cerifera (Carnauba) Wax
Color	White	White	Slightly Yellow
Melting Point (°C)	150-160	150-160	140-150
Density @25°C (g/cc)	1.23-1.25	1.23-1.25	1.09-1.11
Mean Particle Size (µm)	16.0-20.0	8.0-12.0	8.0-12.0



\*\* Synthetic wax or paraffin are acceptable INCI names

 Natural or Naturally Derived

\* Ecocert Approved

\* US Patent No. 8,968,787

# Wax Dispersions

## Gelspersion and Microspersion®

Gelspersions are oil-based dispersions containing some of MPI's most popular micronized waxes. These highly concentrated, high viscosity gels are designed to be easily added post-emulsification with gentle mixing, allowing the formulator great flexibility in product enhancement. Microspersion 684S-XF is a unique dispersion of Microslip 684S in isohexadecane containing pre-dispersed spherical sub-micron PTFE for enhanced lubricity and feel.

Properties	GelMatte 511	GelSlip 519	GelCream 114S	Microspersion 684S-XF
Dry Wax Used	Mattewax 511	Microslip 519	Microease 114S	Microslip 684S
INCI Name	Polypropylene Isohexadecane Polyamide-8 Polyhydroxystearic Acid	PTFE Isohexadecane Polyamide-8 Polyhydroxystearic Acid	Synthetic Wax Isohexadecane Polyamide-8 Polyhydroxystearic Acid	PTFE Isohexadecane
Appearance	Milky Gel	Milky Gel	Milky Gel	Milky Liquid
Wax Solids	40.0%	37.0%	32.0%	26.0%
Viscosity @25°C	30,000 – 60,000 P	31,500 – 71,500 P	70,000 – 110,000 P	2,000 cP
Density @25°C (g/cc)	0.82	1.00	0.82	1.06
Mean Particle Size (µm)	10.0-15.0	5.0-6.0	6.0-8.0	<1.0



## Melting Waxes

Non-micronized waxes for rheological modification and structuring in sticks and balms. These lower melting point grades can also be used to increase viscosity of oil phases in emulsions.

Properties	Micropoly 204	Micropoly 4039	Micropoly 4049	Microease 1132
INCI Name	Synthetic Wax**	Polyethylene	Polyethylene	Synthetic Wax**/Microcrystalline Wax
Appearance	White Pellet	White Pellet	Coarse White Powder	White Pellet
Melting Point (°C)	68-77	99-103	99-103	83-89
Density @25°C (g/cc)	0.89	0.91	0.91	0.94
Penetration @100°C (dmm)	3-7	6-9	6-9	N/A
Color	Saybolt +10/+30	60 Klett max.	60 Klett max.	N/A

# Exfoliants

## Synscrub

Spherical and irregular powders based on synthetic wax. These economical, non-irritating scrubs are inherently freshwater biodegradable to OECD standards. Irregular Synscrub particles give a strong mechanical exfoliation, while spherical Synscrub particles roll gently across the skin.

Properties	Synscrub 20PC *	Synscrub 35PC *	Synscrub 50PC *	Synscrub 80PC	Synscrub 100PC	Synscrub 164S	Synscrub 164SF
INCI Name	Synthetic Wax**	Synthetic Wax**	Synthetic Wax**	Synthetic Wax**	Synthetic Wax**	Synthetic Wax**	Synthetic Wax**
Particle Shape	Irregular	Irregular	Irregular	Irregular	Irregular	Spherical	Spherical
Color	White	White	White	White	White	White	White
Melting Point (°C)	108-113	108-113	108-113	108-113	108-113	108-113	108-113
Density @25°C (g/cc)	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Minimum Particle Size (mesh)	N/A	N/A	N/A	N/A	N/A	40	80
Maximum Particle Size (mesh)	20	35	50	80	100	20	40
Maximum Particle Size (µm)	840	500	297	180	150	840	420

## Synscrub Colors

Permanently colored spherical powders based on biodegradable synthetic wax. These products are designed to prevent color bleed while providing a unique visual effect.

Properties	Synscrub 164BLS	Synscrub 164BRS	Synscrub 164RS	Synscrub 164GRS	Synscrub 164BKS	Synscrub 200GRS	Synscrub Berry 3060S
INCI Name	Synthetic Wax** Blue 1 Lake	Synthetic Wax** Cocos Nucifera (coconut) oil Yellow 5 Lake/Red 30 Lake/Blue 1 Lake/Talc/TiO <sub>2</sub> Iron Oxides/Lecithin	Synthetic Wax** Red 30 Lake	Synthetic Wax** Chromium Hydroxide Green	Synthetic Wax**/Cocos Nucifera (coconut) oil Blue 1 Lake/Red 40 Lake/Yellow 6 Lake Lecithin	Synthetic Wax** Blue 1 Lake Yellow 5 Lake	Synthetic Wax** Red 33 Lake Red 7 Lake Caprylic/Capric Triglycerides
Particle Shape	Spherical	Spherical	Spherical	Spherical	Spherical	Spherical	Spherical
Color	Blue	Brown	Red	Green	Black	Green	Dark Pink
Melting Point (°C)	108-113	108-113	108-113	108-113	108-113	108-113	108-113
Density @25°C (g/cc)	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Minimum Particle Size (mesh)	40	40	40	40	40	40	60
Maximum Particle Size (mesh)	20	20	20	20	20	20	30
Maximum Particle Size (µm)	840	840	840	840	840	840	590

## Naturescrub®

Powders based on natural and naturally derived waxes, including carnauba, montan, and castor wax. These exfoliants are listed on IECIC for use in China.

Properties	Naturescrub C20 *	Naturescrub C50 *	Naturescrub M20	Naturescrub M50	Naturescrub H14	Naturescrub H20	Naturescrub H50
INCI Name	Copernicia Cerifera (Carnauba) Wax	Copernicia Cerifera (Carnauba) Wax	Glycol Montanate	Glycol Montanate	Hydrogenated Castor Oil	Hydrogenated Castor Oil	Hydrogenated Castor Oil
Particle Shape	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular
Color	Light Yellow	Light Yellow	Off-White	Off-White	White	White	White
Melting Point (°C)	83-86	83-86	82-88	82-88	82-87	82-87	82-87
Density @25°C (g/cc)	0.99	0.99	1.01	1.01	0.99	0.99	0.99
Maximum Particle Size (mesh)	20	50	20	50	14	20	50
Maximum Particle Size (µm)	840	297	840	297	1410	840	297

\*\* Synthetic wax or paraffin are acceptable INCI names

 Natural or Naturally Derived

\* Ecocert Approved

\* US Patent No. 8,968,787

# Exfoliants

## Naturebead®

Spherical powders produced from all-natural waxes. Designed for use as non-irritating exfoliating agents that gently roll across the skin. Naturebead G20 will soften as the particles are rubbed onto the skin.

Properties	Naturebead B20	Naturebead G20	Naturebead J20	Naturebead R20 *	Naturebead C14
INCI Name	Copernicia Cerifera (Carnauba) Wax Beeswax	Cetyl Esters Oryza Sativa (Rice) Bran Wax Olea Europaea (olive) fruit oil	Copernicia Cerifera (Carnauba) Wax Beeswax Jojoba Esters	Oryza Sativa (Rice) Bran Wax	Oryza Sativa (Rice) Bran Wax/ Theobroma Cacao (cocoa) seed butter
Particle Shape	Spherical	Spherical	Spherical	Spherical	Spherical
Color	Off-White to Light Yellow	Off-White	Off-White to Light Yellow	Off-White	Off-White to Light Yellow
Melting Point (°C)	71-77	45-53	74-79	70-77	72-76
Density @25°C (g/cc)	0.92	0.94	0.93	0.99	0.98
Maximum Particle Size (mesh)	20	20	20	20	14
Maximum Particle Size (µm)	840	840	840	840	1410

## Naturebead Colors (Natural Spectrabead)

Permanently colored spherical powders produced with all-natural rice bran wax. These products are designed for use as exfoliating agents that provide one-of-a-kind visual product effects.

Properties	NatureBlue 20RS	NatureGreen 20RS	NatureRed 20RS	NatureBrown 20RS
INCI Name	Oryza Sativa (Rice) Bran Wax Blue 1 Lake	Oryza Sativa (Rice) Bran Wax Chromium Hydroxide Green	Oryza Sativa (Rice) Bran Wax Red 40 Lake	Oryza Sativa (Rice) Bran Wax Cocos Nucifera (coconut) oil Yellow 5 Lake/Red 30 Lake Blue 1 Lake/Talc/TiO <sub>2</sub> Iron Oxides/Lecithin
Particle Shape	Spherical	Spherical	Spherical	Spherical
Color	Blue	Green	Red	Brown
Melting Point (°C)	70-77	70-77	70-77	70-77
Density @25°C (g/cc)	0.99	0.99	0.99	0.99
Maximum Particle Size (mesh)	20	20	20	20
Maximum Particle Size (µm)	840	840	840	840

## Bioscrub® and BioWhite

Marine and fresh water biodegradable exfoliants produced from all-natural polyhydroxybutyrate (PHB). These non-irritating scrubs are designed to provide the same high performance as polyethylene based exfoliants. Available in natural (uncolored) and white as well as a variety of particle sizes.

Properties	Bioscrub 20PC **	Bioscrub 50PC **	Bioscrub 80PC *	Bioscrub 100PC *	BioWhite 20PC *	BioWhite 50PC *
INCI Name	Polyhydroxybutyrate	Polyhydroxybutyrate	Polyhydroxybutyrate	Polyhydroxybutyrate	Polyhydroxybutyrate/TiO <sub>2</sub> Blue 1 Lake Ethylene Distearamide	Polyhydroxybutyrate/TiO <sub>2</sub> Blue 1 Lake Ethylene Distearamide
Particle Shape	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular
Color	Light Tan	Light Tan	Light Tan	Light Tan	White	White
Melting Point (°C)	170-180	170-180	170-180	170-180	170-180	170-180
Density @25°C (g/cc)	1.25	1.25	1.25	1.25	1.37	1.37
Maximum Particle Size (mesh)	20	50	80	100	20	50
Maximum Particle Size (µm)	840	297	180	150	840	297

## Ecoscrub®

High molecular weight powders produced from bio-derived and renewable polylactic acid (PLA). Ecoscrubs are designed for use as non-irritating scrub and exfoliating agents. They provide the same high performance of polyethylene scrubs.

Properties	Ecoscrub 1435PC **	Ecoscrub 20PC **	Ecoscrub 40PC **	Ecoscrub 50PC **	Ecoscrub 80PC **	Ecoscrub 100PC **
INCI Name	Polylactic Acid	Polylactic Acid	Polylactic Acid	Polylactic Acid	Polylactic Acid	Polylactic Acid
Particle Shape	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular
Color	White	White	White	White	White	White
Melting Point (°C)	150-160	150-160	150-160	150-160	150-160	150-160
Density @25°C (g/cc)	1.23-1.25	1.23-1.25	1.23-1.25	1.23-1.25	1.23-1.25	1.23-1.25
Maximum Particle Size (mesh)	14	20	40	50	80	100
Maximum Particle Size (µm)	1410	840	420	297	180	150

## Ecocolors

Permanently colored powders based on bio-derived and renewable PLA. These products are designed to prevent bleeding of the color and provide a unique visual effect.

Properties	EcoBlue 5025 **	EcoBlue 50BL1 **	EcoGreen 5025 **	EcoGreen 50GR1 **	EcoRed 5025 **	EcoWhite 5025 **
INCI Name	Polylactic Acid Ultramarines	Polylactic Acid Blue 1 Lake	Polylactic Acid Ultramarines	Polylactic Acid Blue 1 Lake/Yellow 5 Lake Red 40 Lake/TiO <sub>2</sub>	Polylactic Acid Red 40 Lake	Polylactic Acid TiO <sub>2</sub>
Particle Shape	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular
Color	Blue	Blue	Green	Green	Red	White
Melting Point (°C)	150-160	150-160	150-160	150-160	150-160	150-160
Density @25°C (g/cc)	1.23-1.25	1.23-1.25	1.23-1.25	1.23-1.25	1.23-1.25	1.23-1.25
Maximum Particle Size (mesh)	50	50	50	50	50	50
Maximum Particle Size (µm)	297	297	297	297	297	297

## Microscrub® and PropylTex®

High molecular weight powders designed for use as non-irritating scrub and exfoliants. Microscrub products are produced from polyethylene and are available in a wide selection of particle sizes. Microscrub H-50PCS is spherical in shape for a gentler exfoliation. PropylTex 50PC is a high molecular weight polypropylene powder that is non-irritating to the skin while offering a more aggressive scrubbing effect than polyethylene.

Properties	Microscrub 1435PC	Microscrub 20PC	Microscrub 35PC	Microscrub 50PC	Microscrub 80PC	Microscrub 100PC	Microscrub H-50PCS	PropylTex 50PC
INCI Name	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polypropylene
Particle Shape	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular
Color	White	White	White	White	White	White	White	White
Melting Point (°C)	125-135	125-135	125-135	125-135	125-135	125-135	123-125	160-168
Density @25°C (g/cc)	0.92-0.94	0.92-0.94	0.92-0.94	0.92-0.94	0.92-0.94	0.92-0.94	0.94-0.96	0.90
Maximum Particle Size (mesh)	14	20	35	50	80	100	50	50
Maximum Particle Size (µm)	1410	840	500	297	180	150	297	297

## Spectrabead

Permanently colored, low density, high molecular weight polyethylene powders that provide excellent exfoliation with a unique visual effect.

Properties	MicroBlue 5025	MicroWhite 50PC	MicroRed 5025	MicroGreen 5025
INCI Name	Polyethylene Blue 1 Lake	Polyethylene TiO <sub>2</sub>	Polyethylene Red 40 Lake	Polyethylene/Blue 1 Lake/Yellow 10 Lake TiO <sub>2</sub> /Iron Oxides
Particle Shape	Irregular	Irregular	Irregular	Irregular
Color	Blue	White	Red	Green
Melting Point (°C)	125-135	125-135	125-135	125-135
Density @25°C (g/cc)	0.92-0.94	0.92-0.94	0.92-0.94	0.92-0.94
Maximum Particle Size (mesh)	50	50	50	50
Maximum Particle Size (µm)	297	297	297	297

## Exfoliant Product Selector Guide

Product Series	INCI Name	Spherical	Irregular	Available in Colors	Natural or Naturally Derived	Biodegradability/ Compostability	Ecocert Approved (Uncolored)	Bio-fermentation from renewable resources
Synscrub	Synthetic wax or Paraffin**	●	●	●		OECD 302 Fresh Water		
Naturescrub C	Carnauba Wax		●		Natural		●	
Naturescrub M	Glycol Montanate		●		Naturally Derived			
Naturescrub H	Hydrogenated Castor Oil		●		Naturally Derived			
Naturebead	Various	●		●	Natural		Naturebead R20	
Bioscrub	Polyhydroxybutyrate		●	●	Natural	OECD 301 Fresh Water OECD 306 Marine	●	●
Ecoscrub	Polylactic acid		●	●	Naturally Derived	ASTM D6400 Compostable	●	●
Microscrub	Polyethylene	●	●	●				



**MICRO POWDERS, INC.**

*MPI Quality Program Certified to ISO 9001*

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2-04/17