

Specialty Wax Additives and Fine Powders

AGRICULTURAL APPLICATIONS





Driving Innovation and Performance in Agrochemical Applications

Micro Powders' growing portfolio of natural and biodegradable microplastic-free additives with 40CFR compliance offers choice and enhancement without sacrificing performance or sustainability. These advanced additives deliver key benefits in agricultural applications including Seed Coatings, Seed Treatments, Fertilizers, and Adjuvants. Property improvements to agricultural formulations include:

- **Lubricity and Dry Flow:** Improved plantability, processing, and transportation. Resistance to undesirable clumping and agglomerating.
- **Enhanced Durability:** Long-lasting performance under harsh environmental conditions. Reducing dust-off and fracturing in coating formulations.
- **Water Resistance and Repellency:** Water and moisture vapor protection and control.
- **SPF Boosting:** Stabilization of UV sensitive ingredients.
- **Dry Binding:** Easier handling through encrusting and bulking.
- **Anti-Caking:** Resistance to undesirable clumping and agglomerating.

PLUS:

- ECHA and REACH compliant
- Composite wax technology that exceeds performance of traditional wax additives
- Powder and liquid options

CARNAUBA WAXES

Products	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Max	
MicroKlear 418	Carnauba Wax (T-1)	81-86	1.00	6.0-8.0	22.0	Lubricity, Hydrophobicity, Durability
MicroKlear 438	Carnauba Wax (T-3)	80-86	1.00	6.0-8.0	22.0	Lubricity, Hydrophobicity, Durability
MicroKlear 418AL	Carnauba Wax/Aluminum Oxide	81-86	1.04	6.0-8.0	22.0	Lubricity, Hydrophobicity, Extra Durability
MicroKlear 418OR	Organic Carnauba Wax	81-86	1.00	6.0-8.0	22.0	Organic, Lubricity, Hydrophobicity

SYNTHETIC WAXES

Products	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Max	
MP-22	Synthetic Wax	110-115	0.93	7.0-10.0	31.0	Lubricity, Durability, Anti-Caking
MP-22VF	Synthetic Wax	110-115	0.93	6.0-8.0	22.0	Lubricity, Durability, Anti-Caking
MP-22XF	Synthetic Wax	110-115	0.93	4.5-6.5	22.0	Lubricity, Gloss, Durability
MP-22XXF	Synthetic Wax	110-115	0.93	3.75-5.75	15.56	Gloss, Lubricity, Durability
MP-22C	Synthetic Wax	110-115	0.93	6.0-8.0	22.0	Lubricity, Durability, Low Dust
MP-28AL	Synthetic Wax/Aluminum Oxide	114-118	0.99	4.5-6.5	22.0	Durability, Lubricity
Aquawax 214	Oxidized Synthetic Wax	98-102	0.96	9.0-11.0	31.0	Easy Water Dispersibility, Lubricity
Aquawax 214VF	Oxidized Synthetic Wax	98-102	0.96	5.0-7.5	22.0	Easy Water Dispersibility, Lubricity
AquaBead 519*	Hydrophobically Modified Synthetic Wax	126-132	0.94	5.5-8.0	22.0	Water Repellency, Moisture Control

OTHER NATURAL WAXES AND CELLULOSICS

Products	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Max	
NatureFine H325	Hydrogenated Castor Oil	85-88	0.99	8.0-12.0	31.0	Dry Binding, Hydrophobicity
NatureFine R331	Rice Bran Wax	77-82	0.96	6.0-10.0	31.0	Dry Binding, SPF Boosting, Hydrophobicity
NatureMatte® C44	Cellulose	>260	1.46	10.0-15.0	44.0	SPF Boosting, Anti-Caking
NatureTex® 325	Cellulose Acetate	>230	1.30	10.0-15.0	44.0	SPF Boosting, Anti-Caking

AMIDE WAXES

Products	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Max	
Micromide 520	EBS	141-146	0.97	5.0-8.0	22.0	Lubricity, Anti-Caking
Micromide 520XF	EBS	141-146	0.97	3.0-5.0	15.56	Lubricity, Anti-Caking, Gloss
SuperGlide 1231	EBS/Ceramic	141-146	1.00	5.0-8.0	22.0	Lubricity, Anti-Caking, Durability
SuperGlide 904	Synthetic Wax/EBS	138-145	0.96	4.0-6.0	22.0	Lubricity, Durability
Synslip 3750	Synthetic Wax/EBS	135-143	0.94	5.0-7.0	22.0	Lubricity, Durability

COARSE POWDERS AND MELTING WAXES

Products	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)	
				Mean	Max
Naturescrub® C50	Carnauba Wax	82-86	0.99	297	
Naturescrub® H50	Hydrogenated Castor Oil	85-88	0.99	297	
Naturebead® B20	Carnauba Wax, Beeswax	77-82	0.92	840	
Naturebead® G20	Cetyl Esters, Rice Bran Wax, Olive Oil	55-60	0.94	840	
Naturebead® C14	Rice Bran Wax, Cocoa Butter	72-76	0.98	1410	
MicroKlear 438PR	Carnauba Wax Prills	81-86	1.00	–	

WAX EMULSIONS

Products	Wax Type	Emulsifier Type	Melting Point °C	Solids	Viscosity at 25 °C	pH	Particle Size (nm)
AquaBead® 325E	Paraffin	Anionic	54	63.0%	1,000-2,000	8.0-10.0	0.75 (750 nm)
AquaBead® 425E	Carnauba Wax	Anionic	85	25.0%	<200	10.0-11.0	1.00 (1000 nm)
AquaBead® 525E	Paraffin/Carnauba Wax	Anionic	60	30.0%	100-800	10.0-11.0	0.40 (1000 nm)
AquaBead® R331E	Rice Bran Wax	Nonionic	80	50.0%	500-2,000	8.0-10.5	0.55 (550 nm)
AquaKlean 418	Carnauba Wax	Anionic	85	35.0%	<50	4.0-8.0	< 0.10 (100 nm)

	Natural	Naturally Derived	EU 2023/2055 Exemption	Organic	40CFR Approval					Food/Nonfood Use	EPA InertFinder	Aqueous Dispersion
					180.910	180.920	180.930	180.940a	180.950e			
FINE POWDERS AND DISPERSIONS												
CARNAUBA WAXES												
MicroKlear 418	O		B						O	O	Published	Microspersion 418-40
MicroKlear 438	O		B						O	O	Approved	Microspersion 438-40
MicroKlear 418AL	O		B		O				O	O		Microspersion 418AL-40
MicroKlear 418OR	O		B	O					O	O		
SYNTHETIC WAXES												
MP-22			A		O		O	O		O		Microspersion 22-50
MP-22VF*			A		O		O	O		O		
MP-22XF			A		O		O	O		O		
MP-22XXF			A		O		O	O		O		
MP-22C			A		O		O	O		O		
MP-28AL			A		O		O	O		O		Microspersion 28AL-40
Aquawax 214			A		O		O	O		O	Published	Microspersion 214-50
Aquawax 214VF			A		O		O	O		O	Published	
AquaBead® 519			A						O	O		
OTHER NATURAL WAXES AND CELLULOSICS												
NatureFine H325		O	B						O	O		
NatureFine R331*	O		B									Microspersion R331-50
NatureMatte® C44	O		B						O	O		
NatureTex® 325		O	C						O	O	Published	
AMIDE WAXES												
Micromide 520		O	A							Nonfood Only		Microspersion 520
Micromide 520XF		O	A							Nonfood Only		
SuperGlide 1231			A							Nonfood Only		
SuperGlide 904			A							Nonfood Only		
Synslip 3750			A							Nonfood Only		
COARSE POWDERS AND MELTING WAXES												
Naturescrub® C50	O								O	O		
Naturescrub® H50	O								O	O		
Naturebead® B20	O								O	O		
Naturebead® G20*	O											
Naturebead® C14*	O											
MicroKlear 438PR	O		B						O	O		
WAX EMULSIONS												
AquaBead® 325E			A		O	O	O	O		O		
AquaBead® 425E		O	B		O					O	Published	
AquaBead® 525E			A/B		O		O	940A 950E		O		
AquaBead® R331E*		O	YES									
AquaKlean 418		O	YES			O				O	Published	

NOTES All raw material components are registered under REACH (EC) 1907/2006 or are exempt under Annex V. Multicomponent products show the aggregate 40CFR inert ingredient approvals for all components.
 * 40CFR approval anticipated by Q3 2025.
 A Does not meet the ECHA definition of a microplastic; not a polymer but rather a substance.
 B Natural polymers (as defined in REACH Guidance on monomers and polymers) that have not been chemically modified (as defined in REACH Article 3(40)).
 C Polymers that are (bio)degradable, according to the criteria in Appendix X.