

# High Performance **Wax Additives**



**MICRO POWDERS, INC.**

## About MPI

For reliable quality and superb consistency in wax additives, formulators rely on Micro Powders®, the recognized leader in advanced wax technology. Our specialty products meet the demanding requirements of diverse markets, from paints, coatings and printing inks to ceramics, lubricants, adhesives and more.

Our extensive range of micronized waxes, wax dispersions and wax emulsions brings the right solution to a vast array of applications, with reliable batch-to-batch consistency and superior performance values.

Ongoing innovation keeps Micro Powders ahead of the curve in responding to industry trends. R&D takes place in our advanced applications lab, staffed by chemists with many years experience in the industries we serve.

The Micro Powders quality assurance system is certified to ISO 9001. Along with our technical expertise comes dedicated partnership support from our knowledgeable distributors worldwide and our own staff experts. Our advanced technology will make a quality difference in your products, and your profits.



## Unique Products

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*Laser Diffraction Analysis ensures consistent particle size uniformity from batch-to-batch. Our wax additives are easily dispersed without prior melting or grinding. Product groups include:*

**MP Synthetic Waxes** for lubricity and economy

**MPP Polyethylene Waxes** for rub and mar resistance

**Fluo PTFE (Polytetrafluoroethylene) Waxes** for high slip, mar and heat resistance

**PropylMatte / AquaMatte® / MicroMatte® Waxes** for uniform matting and scratch resistance

**Micropro Waxes** for anti-blocking and gloss control

**Polyfluo® / Synfluo Waxes** for slip and abrasion resistance

**Polysilk® Waxes** for improved slip, tape release and smooth surface

**Superslip / Synslip / SuperGlide Waxes** for high lubricity without PTFE

**MicroKlear Waxes** for abrasion resistance with gloss retention and clarity

**Wax Emulsions** for water repellency and moisture resistance

**Aqua Waxes** for all water based applications

**Microspersion® Wax Dispersions** "stir-in" wax dispersions

**PropylTex® Waxes** for texture and gloss control

**NyloTex Waxes** high melt point texture additives

**AquaTex® Waxes** texture and gloss control in water based systems

**MicroTouch Products** soft touch additives


**Special-Effects Products** for visual effects









## MP Synthetic Waxes



Straight chain, fully saturated synthetic hydrocarbon waxes produced by the Fischer-Tropsch process. These products provide extra slip, scratch and rub resistance. They are effective and economical in most ink, paint and coating systems.

Typical Properties	MP-15	MP-22 	MP-22VF	MP-22XF	MP-22XXF	MP-22C	MP-28C	MP-28XF
Melting Point °C	102-106	102-106	102-106	102-106	102-106	102-106	104-110	104-110
Density at 25 °C (g/cc)	0.94	0.94	0.94	0.94	0.94	0.94	0.96	0.96
NPIRI Grind	N/A	4.0-6.0	2.0-3.5	1.5-3.0	1.0-2.0	2.0-3.0	1.5-3.0	1.5-3.0
Maximum Particle Size (µm)*	104.7	31.0	22.0	22.0	15.56	22.0	22.0	22.0
Mean Particle Size (µm)*	20.0-26.0	7.0-10.0	6.0-8.0	4.5-6.5	3.75-5.75	6.0-8.0	6.0-8.0	4.5-6.5

## MPP Polyethylene Waxes

Formulated to provide maximum rub and mar resistance, gloss retention and anti-block properties. Our polyethylene grades are versatile, with excellent recoatability, and allow higher processing temperatures than synthetic waxes.


Typical Properties	MPP-230F 	MPP-230VF	MPP-611 	MPP-611XF 	MPP-620F	MPP-620VF 	MPP-620XF	MPP-620XXF
Melting Point °C	113-124	113-124	109-111	109-111	114-116	114-116	114-116	114-116
Density at 25 °C (g/cc)	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95
NPIRI Grind	4.0-5.5	3.0-4.0	2.0-3.0	1.0-2.0	4.0-5.0	2.0-3.0	1.0-2.0	1.0-1.5
Maximum Particle Size (µm)*	31.0	26.0	22.0	22.0	31.0	22.0	22.0	12.0
Mean Particle Size (µm)*	10.0-12.0	8.0-10.0	5.0-8.0	4.0-6.0	7.0-9.0	5.0-7.0	4.5-5.5	4.25-4.75


Typical Properties	MPP-635G	MPP-635F 	MPP-635VF 	MPP-635XF	MPP-1241	MPP-123
Melting Point °C	123-125	123-125	123-125	123-125	123-126	110-113
Density at 25 °C (g/cc)	0.96	0.96	0.96	0.96	0.96	0.92
NPIRI Grind	6.0-8.0	4.0-5.0	2.0-3.0	1.0-2.5	N/A	4.0-6.0
Maximum Particle Size (µm)*	31.0	31.0	22.0	22.0	110.0	31.0
Mean Particle Size (µm)*	11.0-13.0	8.0-10.0	6.0-8.0	4.0-6.0	20.0-25.0	9.5-12.5



## Fluo PTFE Waxes

Often used in combination with micronized waxes to achieve higher surface lubricity, anti-blocking properties and lower cost. Our micronized PTFE (polytetrafluoroethylene) products are heat resistant and insoluble. The Fluo 625F-H and Fluo 750TX are special PTFE grades that provide various texture effects in powder coatings. Fluo X-1406 contains clusters of sub-micron particles which provide maximum lubricity in inks and coatings. MicroTex 121 is a combination of PTFE and polyethylene that provides uniform texturing and abrasion resistance in powder coatings.

Typical Properties	Fluo HT 	Fluo HTI-2	Fluo 300	Fluo 300XF	Fluo 625F-H
Melting Point °C	>316	>316	>316	>316	>316
Density at 25 °C (g/cc)	2.2	2.2	2.2	2.2	2.2
NPIRI Grind	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	N/A
Maximum Particle Size (µm)*	12.0	15.56	22.0	15.56	44.0
Mean Particle Size (µm)*	2.0-4.0	3.0-5.0	5.0-6.0	2.0-4.0	13.0-21.0

Typical Properties	Fluo 750TX	Fluo X-1406 	MicroTex® 121
Melting Point °C	>325	>316	110 – 118
Density at 25 °C (g/cc)	2.2	2.2	1.02
NPIRI Grind	N/A	N/A	N/A
Maximum Particle Size (µm)*	145.0	22.0	N/A
Mean Particle Size (µm)*	20.0-30.0	4.0-6.0 (<0.3 primary)	<100



\* Laser Diffraction Analysis

 Available as a water based dispersion

## Polyfluo® Waxes

Unique combinations of polyethylene waxes and PTFE that provide a high degree of surface lubricity, abrasion resistance and film toughness. These proprietary formulations offer a synergistic combination of properties, for superior formulation flexibility in inks, paints, and coatings. Polyfluo maximizes performance efficiency in low viscosity systems.

Typical Properties	Polyfluo 120	Polyfluo 150	Polyfluo 150XF	Polyfluo 190	Polyfluo 190S	Polyfluo 200	Polyfluo 400
Melting Point °C	107-110	113-116	113-116	121-132	121-132	124-126	108-115
Density at 25 °C (g/cc)	1.10	1.15	1.15	0.99	0.99	1.10	1.35
NPIRI Grind	3.0-5.0	1.0-2.0	1.0-2.0	3.5-5.5	3.0-4.0	3.0-5.0	1.0-2.0
Maximum Particle Size (µm)*	31.0	15.56	11.0	31.0	31.0	31.0	22.0
Mean Particle Size (µm)*	6.0-10.0	3.5-5.5	3.0-5.0	9.0-12.0	6.5-8.5	9.0-11.0	5.0-6.0

Typical Properties	Polyfluo 400XF	Polyfluo 523XF	Polyfluo 535	Polyfluo 535XF	Polyfluo 540	Polyfluo 540XF	Polyfluo 900
Melting Point °C	108-115	113-117	108-115	108-115	108-115	108-115	121-132
Density at 25 °C (g/cc)	1.35	1.26	1.02	1.02	1.02	1.02	1.02
NPIRI Grind	1.0-1.5	1.0-2.0	1.0-2.0	1.0-1.5	1.0-2.0	1.0-1.5	4.0-6.0
Maximum Particle Size (µm)*	11.0	15.56	22.0	11.0	22.0	11.0	31.0
Mean Particle Size (µm)*	3.0-5.0	3.5-5.5	5.0-6.0	4.0-5.0	5.0-6.0	3.0-5.0	9.0-12.0

## Synfluo Waxes

Special combinations of synthetic wax and PTFE designed to impart high levels of surface lubricity and scratch resistance to printing inks, paints and coatings. Synfluo is especially recommended for use in high gloss lacquers, can and coil coatings, as well as powder coatings. Synfluo 283TX is an ideal texture effect additive for powder coatings.

Typical Properties	Synfluo 168VF	Synfluo 171VF	Synfluo 172VF	Synfluo 172XF	Synfluo 178VF	Synfluo 178XF	Synfluo 180VF	Synfluo 180XF	Synfluo 283TX
Melting Point °C	104-110	104-110	104-110	104-110	104-110	104-110	104-110	104-110	104-110
Density at 25 °C (g/cc)	0.99	1.00	1.01	1.01	1.03	1.03	1.10	1.10	1.05
NPIRI Grind	4.0-5.0	2.0-3.0	1.5-3.0	1.0-2.5	1.5-3.0	1.0-2.0	1.5-3.0	1.0-2.0	4.5-6.5
Maximum Particle Size (µm)*	31.11	22.0	22.0	18.5	22.0	15.56	22.0	11.0	31.0
Mean Particle Size (µm)*	8.0-10.0	4.0-7.0	4.0-7.0	3.5-6.25	4.0-7.0	3.0-5.0	4.0-7.0	3.0-5.0	8.5-10.5

## Polysilk® Waxes

Unique combinations of low molecular weight fatty waxes on a backbone of polyethylene. Polysilk is designed to bloom and provide excellent surface slip without the use of silicone. These additives give excellent tape release with scuff and mar resistance when used in solvent systems. Polysilk 14 and Polysilk 600 contain PTFE for added toughness and slip.

Typical Properties	Polysilk 14	Polysilk 600	Polysilk 750
Melting Point °C	96-118	96-109	96-109
Density at 25 °C (g/cc)	1.04	1.08	0.93
NPIRI Grind	3.5-4.5	2.0-3.0	2.0-3.0
Maximum Particle Size (µm)*	31.0	22.0	22.0
Mean Particle Size (µm)*	7.5-9.5	5.0-7.0	5.0-7.0



## MicroKlear Waxes

Formulated with prime #1 yellow refined carnauba wax. MicroKlear grades are ideally suited where excellent slip, gloss and clarity are required. MicroKlear 116 and 295 are combinations of polyethylene and carnauba. MicroKlear 418 is 100% carnauba wax. MicroKlear 709 contains PTFE for maximum slip properties.

Typical Properties	MicroKlear 116	MicroKlear 295	MicroKlear 418	MicroKlear 709
Melting Point °C	107-113	104-110	81-86	119-124
Density at 25 °C (g/cc)	0.97	0.97	0.99	1.10
NPIRI Grind	1.5-2.5	2.0-3.0	2.0-3.5	2.0-3.0
Maximum Particle Size (µm)*	15.56	22.0	22.0	22.0
Mean Particle Size (µm)*	4.0-5.25	4.0-6.0	6.0-8.0	4.0-6.0



## Micropro Waxes

Modified polypropylene waxes characterized by higher melt points and toughness. These products exhibit excellent surface slip, mar resistance, anti-blocking and gloss control, while improving metal marking resistance. They are useful for suspending silica additives and provide a non-abrasive smooth surface. Micropro 440W is specifically formulated for easy incorporation in water based systems. Micropro 700 contains PTFE for maximum slip properties.

Typical Properties	Micropro 200	Micropro 400	Micropro 440W	Micropro 500	Micropro 600	Micropro 600VF	Micropro 700
Melting Point °C	140-143	140-143	150-156	141-143	146-149	146-149	149-154
Density at 25 °C (g/cc)	0.95	0.93	0.94	0.94	0.93	0.93	1.04
NPIRI Grind	3.0-5.0	2.0-3.5	3.0-5.0	2.0-3.5	3.0-4.0	2.0-3.5	2.0-3.0
Maximum Particle Size (µm)*	31.0	22.0	31.0	22.0	22.0	22.0	22.0
Mean Particle Size (µm)*	6.0-11.0	4.5-7.5	7.0-10.0	4.5-7.5	6.0-9.0	5.0-8.0	5.0-7.0

## PropylMatte Waxes

These grades provide uniform and efficient gloss reduction with optimum resistance to burnishing. PropylMatte 31, 450, and 500 are produced from 100% polypropylene and provide consistent matting with minimal effect on viscosity. PropylMatte 31HD is a high density version modified for optimal in-can stability in water based systems. PropylMatte 31SA is modified with PTFE for improved slip, lubricity and abrasion resistance.

Typical Properties	PropylMatte 31	PropylMatte 31HD	PropylMatte 31SA	PropylMatte 450	PropylMatte 500
Melting Point °C	160-170	160-170	160-170	142-148	142-148
Density at 25 °C (g/cc)	0.89	1.07	1.02	0.90	0.90
NPIRI Grind	5.0-6.0	5.0-6.0	5.0-6.0	5.0-6.0	2.0-3.5
Maximum Particle Size (µm)*	31.0	31.0	31.0	31.0	22.0
Mean Particle Size (µm)*	8.0-12.0	8.0-12.0	8.0-12.0	8.0-12.0	5.0-8.0

## AquaMatte® and MicroMatte Waxes

AquaMatte products are high density oxidized polyolefins designed for ease of dispersability and stability in all water based systems. MicroMatte 1011 UVW and MicroMatte 1213 UVW are specially modified waxes incorporating microencapsulated inorganics to eliminate flotation, for enhanced stability in water based and UV systems. MicroMatte 2000 is a hybrid polypropylene that reduces gloss while maintaining excellent clarity.

Typical Properties	AquaMatte 22	AquaMatte 26HD	AquaMatte 31	MicroMatte 1011 UVW	MicroMatte 1213 UVW	MicroMatte 2000
Melting Point °C	135-140	105-111	135-140	150-156	150-156	146-149
Density at 25 °C (g/cc)	0.99	1.07	0.99	1.07	1.11	0.94
NPIRI Grind	2.0-3.0	3.0-4.0	5.0-6.0	2.0-3.5	2.0-3.5	2.0-4.0
Maximum Particle Size (µm)*	22.0	26.0	31.0	22.0	22.0	22.0
Mean Particle Size (µm)*	6.0-8.0	6.0-8.5	8.0-12.0	5.0-7.5	5.0-7.5	6.0-9.0

## Superslip, Synslip and SuperGlide Waxes

Combinations of polyolefins and amides designed to impart increased lubricity, scratch resistance and anti-blocking without the use of PTFE. They also impart an excellent "feel" or smoothness to a coating.

Typical Properties	Superslip 6515	Superslip 6515XF	Superslip 6520	Superslip 6530	Synslip 3750	Synslip 3780	SuperGlide 904	SuperGlide 904XF
Melting Point °C	124-137	124-137	135-143	124-135	135-143	135-143	138-145	138-145
Density at 25 °C (g/cc)	0.95	0.95	0.96	0.95	0.95	0.96	0.97	0.97
NPIRI Grind	2.0-3.0	1.0-2.0	2.0-3.0	2.0-3.5	2.0-3.5	2.0-4.0	2.0-4.0	1.0-2.0
Maximum Particle Size (µm)*	22.0	15.56	22.0	22.0	22.0	22.0	22.0	15.56
Mean Particle Size (µm)*	6.0-8.0	4.0-6.0	6.0-8.0	6.0-7.5	5.0-7.0	5.0-8.0	4.0-7.0	3.0-5.0

## Micromide Waxes

Finely micronized vegetable derived EBS waxes. Our Micromide grades feature extremely fine particle control with excellent blooming properties. These waxes provide surface slip, scratch and mar resistance as well as some gloss control.

Typical Properties	Micromide 520	Micromide 520XF
Melting Point °C	141-145	141-145
Density at 25 °C (g/cc)	0.97	0.97
NPIRI Grind	1.5-3.0	1.0-2.0
Maximum Particle Size (µm)*	22.0	15.56
Mean Particle Size (µm)*	5.0-8.0	3.0-5.0

## AquaBead® Waxes







Finely micronized wax polymers specifically formulated to produce a water "beading" effect. These unique powder compositions combine the synergistic properties of several waxes to produce immediate, consistent and long-lasting water beading and weather resistance.

Typical Properties	AquaBead 519	AquaBead 916
Softening Point °C	60-63	64-67
Melting Point °C	126-132	128-132
Density at 25 °C (g/cc)	0.91	0.93
NPIRI Grind	2.0-3.0	1.5-2.5
Maximum Particle Size (µm)*	22.0	22.0
Mean Particle Size (µm)*	6.0-8.0	7.0-9.0



## Aqua Waxes

Specifically modified for easy incorporation and stability in water based inks, paints and coatings. Aquawax 214 and Aquawax 214VF are hard, high melt point micronized synthetic waxes. AquaPoly 215 grades are economical polyethylene waxes. AquaPoly 250 is a hard, high density and high molecular weight polyethylene polymer that imparts excellent scratch, rub and mar resistance, while reducing potential wax defoamer kickout. AquaPolyflu 411 and AquaPolysilk 19 contain PTFE for increased lubricity and scratch resistance. AquaSuperslip 6550 imparts maximum lubricity and block resistance.

Typical Properties	Aquawax 214 	Aquawax 214VF	AquaPoly 215 	AquaPoly 215F	AquaPoly 215VF	AquaPoly 250 	AquaPolyflu 411 	AquaPolysilk 19 	AquaSuperslip 6550 
Melting Point °C	104-107	104-107	105-111	105-111	105-111	117-123	117-123	102-118	124-135
Density at 25 °C (g/cc)	0.96	0.96	0.95	0.95	0.95	0.98	1.10	1.06	0.94
NPIRI Grind	4.0-6.0	2.0-3.5	5.0-6.0	3.0-4.0	2.0-3.5	4.0-5.0	2.5-3.5	3.5-4.5	2.0-3.5
Maximum Particle Size (µm)*	31.0	22.0	31.0	26.16	22.0	31.0	22.0	31.0	22.0
Mean Particle Size (µm)*	9.0-11.0	5.0-7.5	9.0-11.0	6.0-8.5	5.0-7.5	8.0-10.0	6.0-8.0	9.0-11.0	5.0-7.5

## Wax Emulsions

Sub-micron aqueous emulsions formulated using a combination of waxes. The AquaBead grades are designed to produce a water beading effect as well as long-lasting water repellency in aqueous paints, stains, and coatings. The AquaKlean grades provide excellent scrubability and burnish resistance in architectural interior and exterior wall paints, coatings, stains, and sealers. Microspersion 91E is a polypropylene emulsion designed to increase COF in water based floor finishes, inks, and OPV's. Microspersion 504E is a large particle size PE emulsion for aqueous inks and coatings. Microspersion 526E is a high melt point PE emulsion that provides optimum surface protection while maintaining excellent gloss and film clarity.

Typical Properties	AquaBead 270E	AquaBead 325E	AquaBead 425E	AquaBead 525E
Emulsifier Type	Anionic	Anionic	Anionic	Anionic
Wax Type	Paraffin/polyethylene	Paraffin	Carnauba wax	Paraffin/carnauba wax
Solids	40.0%	63.0%	25.0%	30.0%
Viscosity at 25°C (cP)	500	100	50	500
pH	10.0	8.5	10.0	10.5
Density at 25 °C (g/cc)	0.95	0.93	1.00	0.97



Typical Properties	AquaKlean 402	AquaKlean 403	AquaKlean 418	Microspersion 91E	Microspersion 504E	Microspersion 526E
Emulsifier Type	Anionic	Anionic	Anionic	Nonionic	Nonionic	Anionic
Wax Type	Paraffin/carnauba wax	Polyethylene/paraffin	Carnauba wax	Polypropylene	Polyethylene/paraffin	Polyethylene
Solids	30.0%	30.0%	35.0%	40.0%	40.0%	25.0%
Viscosity at 25°C (cP)	500	100	50	50	500	<50
pH	10.5	9.5	6.0	9.0	8.5	9.5-10.5
Density at 25 °C (g/cc)	0.97	0.99	1.00	0.99	0.99	0.98

## Microspersion® Wax Dispersions

Aqueous nonionic dispersions of Micro Powders micronized waxes. Designed for ease of incorporation and optimum performance, the Microspersion grades enable the use of highly efficient micronized waxes in a liquid form. The products listed below include some of our more popular grades. For a complete listing visit our website. Microspersion EZ is an advanced wetting and dispersing agent for water based systems.

Typical Properties	Microspersion 19	Microspersion 22-50	Microspersion 22AQ-50	Microspersion 31HD-40	Microspersion 190-50	Microspersion 215-50	Microspersion 250-50	Microspersion 411-50
Dry Wax ID	Aquapolsilk 19	MP-22	AquaMatte 22	PropylMatte 31HD	Polyflu 190	AquaPoly 215	AquaPoly 250	AquaPolyflu 411
Wax Solids	25.0%	50.0%	50.0%	40.0%	50.0%	50.0%	50.0%	50.0%
Resin Type/Solids	Acrylic/12.3%	None	None	None	None	None	None	None
Total Solids	37.3%	52.5%	50.9%	42.1%	52.5%	51.0%	50.0%	52.5%
pH	8.5	9.0	7.5	8.5	9.0	7.5	8.5	9.0
Viscosity at 25°C (cP)	4500	3500	3000	4000	5500	3000	5000	2500
Density at 25 °C (g/cc)	1.02	0.95	1.00	1.03	1.00	0.95	1.02	1.04
NPIRI Grind	4.0-5.0	4.0-6.0	2.0-3.0	5.0-6.0	3.0-5.0	4.0-6.0	5.0-6.0	5.0-6.0
Mean Particle Size (µm)	9.0-11.0	7.0-10.0	6.0-8.0	8.0-12.0	9.0-12.0	9.0-11.0	8.0-10.0	6.0-8.0

Typical Properties	Microspersion 440W	Microspersion 520	Microspersion 523	Microspersion 620-50	Microspersion 930	Microspersion 1406	Microspersion HT	Microspersion® EZ
Dry Wax ID	Micropro 440W	Micromide 520	Polyflu 523XF	MPP-620VF	PE Hybrid	Fluo X-1406	Fluo HT	N/A
Wax Solids	40.0%	34.0%	40.0%	50.0%	35.0%	50.0%	50.0%	N/A
Resin Type/Solids	Acrylic/8.9%	None	None	None	None	None	None	N/A
Total Solids	48.9%	34.0%	42.5%	52.0%	35.5%	52.6%	54.5%	~50%
pH	8.5	10.0	10.0	8.0	9.5	7.5	9.0-10.5	N/A
Viscosity at 25°C (cP)	1000	75	1500	4000	1500	4000	6000	300-500 cps
Density at 25 °C (g/cc)	1.02	1.00	1.09	0.99	0.98	1.40	1.50	N/A
NPIRI Grind	4.0-5.0	N/A	1.0-2.5	2.5-3.5	5.0-6.0	N/A	1.0-2.0	N/A
Mean Particle Size (µm)	7.0-10.0	5.0-8.0	3.5-5.5	5.0-7.0	9.0-11.0	<1.0	2.0-4.0	N/A

## PropylTex® Waxes

Micronized polypropylene designed to produce unique texturizing effects in paints and coatings. The low density and insolubility characteristics of PropylTex will reduce or eliminate settling and provide optimum durability in both water based and solvent systems. Coarse PropylTex grades are ideal for walking surfaces and other nonskid coating applications. Medium and fine particle size grades can be used to reduce gloss in higher film build coatings.

Typical Properties	PropylTex 20	PropylTex 30	PropylTex 50	PropylTex 100S	PropylTex 140S	PropylTex 200S	PropylTex 200SF	PropylTex 230S	PropylTex 270S	PropylTex 325S
Melting Point °C	166-168	166-168	166-168	160-170	160-170	160-170	160-170	160-170	160-170	160-170
Density at 25 °C (g/cc)	0.90	0.90	0.90	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Maximum Particle Size (µm)**	840.0 (20 mesh)	594.0 (30 mesh)	300.0 (50 mesh)	149.0 (100 mesh)	105.0 (140 mesh)	74.0 (200 mesh)	74.0 (200 mesh)	63.0 (230 mesh)	53.0 (270 mesh)	44.0 (325 mesh)
Mean Particle Size (µm)	270.0-300.0	235.0-255.0	160.0-180.0	80.0-100.0	45.0-55.0	35.0-45.0	25.0-35.0	36.0-40.0	15.0-25.0	10.0-15.0

∴ Narrow Mean Particle Range(s) Available

## PropylTex® HD Waxes

High density micronized polypropylene for adding consistent surface texture and structure with excellent in-can stability in water based paints and coatings.

Typical Properties	PropylTex 200HD	PropylTex 230HD	PropylTex 270HD	PropylTex 325HD
Melting Point °C	160-170	160-170	160-170	160-170
Density at 25 °C (g/cc)	1.07	1.07	1.07	1.07
Maximum Particle Size (µm)	75.0 (200 mesh)	63.0 (230 mesh)	53.0 (270 mesh)	44.0 (325 mesh)
Mean Particle Size (µm)	40.0-45.0	36.0-39.0	15.0-18.0	10.0-15.0



## AquaTex® and NyloTex Waxes

AquaTex grades are based on high density oxidized polyethylene. They are ideally suited for water based texturizing applications where excellent dispersibility and reduced flotation are desired. NyloTex grades are micronized polyamide (Nylon 6) that exhibit a higher melt point than standard polyolefins, making them ideal for higher temperature texture applications. NyloTex grades offer exceptional wear and durability in performance coatings.

Typical Properties	AquaTex 100	AquaTex 140	AquaTex 200	AquaTex 230	AquaTex 270	AquaTex 325	NyloTex 20	NyloTex 50	NyloTex 140	NyloTex 200
Melting Point °C	135-140	135-140	135-140	135-140	135-140	135-140	218-224	218-224	218-224	218-224
Density at 25 °C (g/cc)	0.99	0.99	0.99	0.99	0.99	0.99	1.14	1.14	1.14	1.14
Maximum Particle Size (µm)**	149.0 (100 mesh)	105.0 (140 mesh)	74.0 (200 mesh)	63.0 (230 mesh)	53.0 (270 mesh)	44.0 (325 mesh)	840.0 (20 mesh)	300.0 (50 mesh)	105.0 (140 mesh)	74.0 (200 mesh)
Mean Particle Size (µm)	80.0-100.0	45.0-55.0	35.0-45.0	36.0-40.0	15.0-25.0	10.0-15.0	270.0-300.0	160.0-180.0	45.0-65.0	30.0-50.0

## MicroTouch Products

Based on polyurethane technology, these highly resilient products can be used to modify and enhance the tactile properties of a coatings system from satiny smooth to leathery to rubbery. MicroTouch additives will provide a matte appearance and deliver excellent scratch, burnish, and mar resistance.

Typical Properties	MicroTouch 800F	MicroTouch 800VF	MicroTouch 800XF	MicroTouch 850XF
Density at 25 °C (g/cc)	1.05	1.05	1.05	1.02
Maximum Particle Size (µm)	120.0	60.0	31.0	31.0
Mean Particle Size (D50, µm)	22.0-30.0	11.0-15.0	6.0-9.0	5.0-9.0

## Specialty Products

These specialty grades fulfill a wide variety of end uses. Polyblends offer unique combinations of micronized polyethylene wax and PTFE. Microscrub 50 is a coarse particle size polyethylene exfoliating agent for industrial hand cleaners.

Typical Properties	Polyblend 100XF	Polyblend 200XF	Microscrub® 50
Melting Point °C	110-116	123-125	107-109
Density at 25 °C (g/cc)	1.02	1.02	0.95
NPIRI Grind	1.0-2.0	1.0-2.0	N/A
Maximum Particle Size (µm)*	22.0	22.0	297.0
Mean Particle Size (µm)*	4.0-6.0	5.0-6.0	N/A

## Special-Effects Products

MicroBlack, MicroWhite and MicroGranite are pigmented polymers for adding colored effects to paints and coatings.

Typical Properties	MicroGranite 100	MicroBlack 100S	MicroWhite 100S
Melting Point °C	115-120	121-127	121-127
Density at 25 °C (g/cc)	0.99	0.99	0.99
Color/Appearance	Granite	Black	White
Maximum Particle Size (µm)**	149.0 (100 mesh)	149.0 (100 mesh)	149.0 (100 mesh)
Mean Particle Size (µm)*	85.0-115.0	95.0-115.0	95.0-115.0

\*\* Typical Values By Screen Analysis

# What's Your Application?

	Liquid Inks					Offset Inks			Paint & Coatings							Stains		Lacquers			Miscellaneous			Benefits		
	Aqueous: Film	Solvent: Film	Aqueous: Paper	Solvent: Paper	Publication	IR/Sheet Fed	Heat Set	Ultraviolet	Can & Container	Aqueous: Metal	Solvent: Metal	Powder	Aqueous: Wood	Solvent: Wood	Floor	Architectural	Trim Paints	Aqueous	Solvent	Aqueous	Solvent	UV & EB	Lubricants	Rubber Additives	Polishes	Performance Benefits
Aqua Waxes																										S A HR M G
AquaBead Wax Emulsions																										W S M G
AquaBead Waxes																										W S M G
AquaKlean Wax Emulsions																										W S M G A
Fluo Waxes																										S T MM HR GC
MicroKlear Waxes																										S A M G
MicroMatte & PropylMatte Waxes																										GC MM A H
Micromide Waxes																										S GC M
Micropro Waxes																										GC MM A
Microspersion Wax Dispersions																										S M HR MM
MicroTouch Products																										GC A T M
MP Synthetic Waxes																										S H A W
MPP Polyethylene Waxes																										A M MM H
Polyfluo Waxes																										S A HR G H
Polysilk Waxes																										S A W
Superslip, Synslip & SuperGlide Waxes																										S A M H GC
Synfluo Waxes																										S A HR G H
PropylTex, AquaTex & NyloTex Waxes																										T M GC H

Addition Level Key: Percentage is based on total formula weight

	= 0.25 - 1.0%		= 2.0 - 3.0%
	= 1.0 - 2.0%		= Above 3.0%
	= 1.0 - 3.0%		

Benefits Key:

S = Slip / Lubricity	M = Mar Resistance
A = Abrasion Resistance	MM = Metal Marking
GC = Gloss Control	HR = Heat / Blocking Resistance
H = Hardness	G = Gloss Retention
T = Texture	W = Water Repellency



The data contained in this brochure are typical properties and are not to be considered specifications. Please contact Micro Powders directly for official product specifications.



**MICRO POWDERS, INC.**

MPI Quality Program Certified to ISO 9001

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