



**SPECIALTY
WAX ADDITIVES
AND FINE POWDERS**

PTFE ALTERNATIVES



MICRO POWDERS, INC.



SMALL PARTICLES **BIG IDEAS**™

Micro Powders offers the most comprehensive portfolio of PTFE alternative surface modifiers available in the industry.

With multinational approvals and global food contact compliance since 2019, these commercially proven powders and dispersions are designed to provide coating formulators with an arsenal of multi-functional ingredients that meet the industry's highest coating performance standards.

Our best-in-class engineered composite and nanocomposite additives combine natural and synthetic waxes with high performance materials that include aluminum oxide and ceramic, delivering performance equal to or better than conventional PTFE and PTFE combination additives.



PTFE ALTERNATIVE SURFACE MODIFIERS

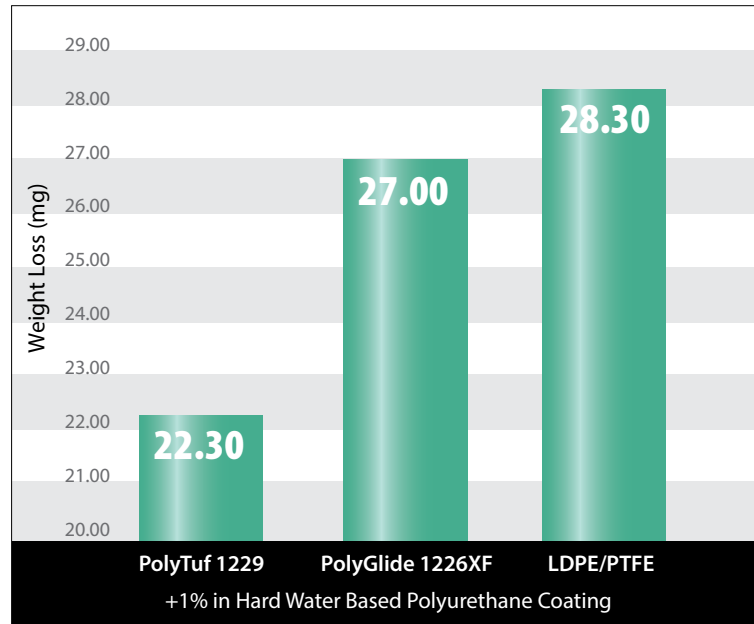
PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
MicroKlear 116	Carnauba wax/HDPE/	107-113	0.98	4.0-5.25	15.56	Slip, clarity, scratch
NEW MicroKlear 116AL	Carnauba wax/HDPE/ aluminum oxide	107-113	1.01	3.5-5.5	15.56	Slip, scratch
MicroKlear 418AL	Carnauba wax/aluminum oxide	81-86	1.04	6.0-8.0	22.0	Scratch, clarity, natural
NEW MP-28AL	Synthetic wax/aluminum oxide	104-110	0.99	4.5-6.5	22.0	Scratch, slip, anti-block
MPP-123AL	LDPE/aluminum oxide	110-113	0.97	9.5-12.5	31.0	Scratch, minimal slip
MPP-611AL	HDPE/aluminum oxide	109-115	0.99	4.0-6.0	15.56	Scratch, slip, gloss
MPP-635VF	HDPE	123-125	0.97	6.0-8.0	22.0	Scratch, abrasion, anti-block
NatureFine R331	Rice bran wax	77-82	0.96	6.0-10.0	31.0	Slip, abrasion
NEW NatureMatte® C44	Cellulose	>260	1.46	10.0-15.0	44.0	Slip, heat resistance
NatureTex® 325	Cellulose acetate	>230	1.30	10.0-15.0	44.0	Slip, heat resistance
PolyGlide 1226XF	HDPE/ceramic	109-115	0.99	3.5-5.5	15.56	Abrasion, slip, gloss
NEW PolyTuf® 1229	LDPE/ceramic	110-113	0.97	9.0-12.0	31.0	Abrasion, burnish
Superslip 6515AL	HDPE/amide/aluminum oxide	139-145	0.99	3.5-5.5	15.56	Scratch, slip, heat release
Superslip 6530	HDPE/EBS	124-135	0.97	6.0-7.5	22.0	Scratch, abrasion, slip

Choosing the best PTFE alternative additive doesn't have to be intimidating. We are always available to provide technical assistance either directly or through one of our certified distribution partners around the globe.

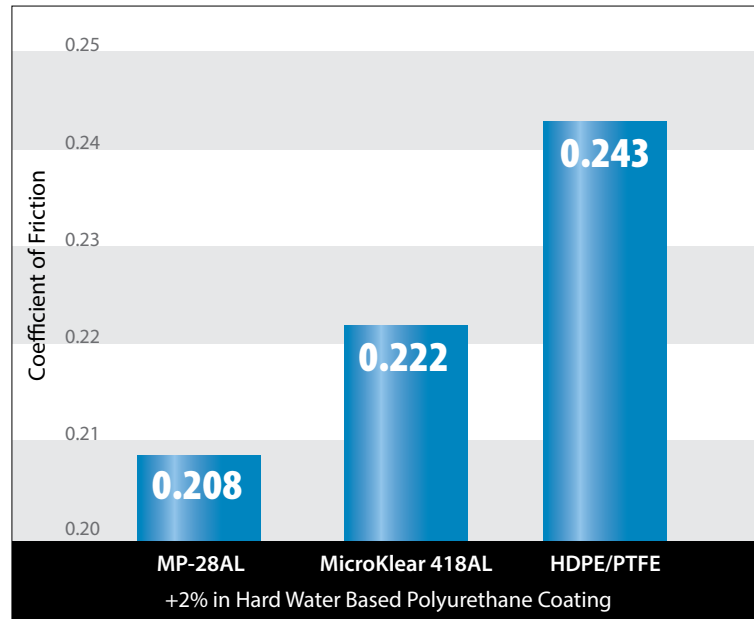
Natural or naturally derived Available as a waterbased dispersion

Request free samples 24/7 on micropowders.com

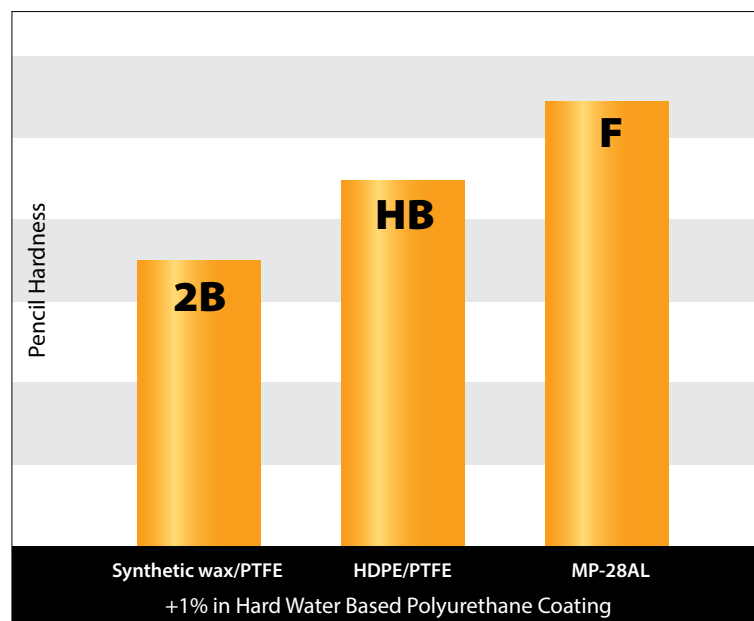
ASTM D4060
Abrasion Resistance
after 2500 cycles















ASTM D1894
Coefficient of Friction




ASTM D3363
Pencil Hardness
(Scratch)




PTFE ALTERNATIVES SELECTOR GUIDE

Products	Description	Suggested Use Level	Scratch Resistance	Abrasion Resistance	Heat Resistance	Rub Resistance	COF Reduction	Gloss Retention	Biodegradable
MicroKlear 116	Carnauba wax/ HDPE	1.0-3.0%	●	●		●	●	●	
NEW MicroKlear 116AL	Carnauba wax/ HDPE/ aluminum oxide	0.5-1.5%	●	●		●	●	●	
MicroKlear 418AL  	Carnauba wax/ aluminum oxide	0.5-1.5%	●	●		●	●	●	✓
NEW MP-28AL	Synthetic wax/ aluminum oxide	0.5-1.5%	●	●		●	●	●	✓
MPP-123AL 	LDPE/ aluminum oxide	0.5-1.5%	●	●		●	○	○	
MPP-611AL 	HDPE/ aluminum oxide	0.5-1.5%	●	●		●	●	●	
MPP-635VF 	HDPE	1.0-3.0%	●	●		●	●	●	
NatureFine R331  	Rice bran wax	1.0-3.0%	○	●		●	●	○	✓
NEW NatureMatte® C44  	Cellulose	2.0-5.0%	●	○	●	●	●	○	✓
NatureTex® 325 	Cellulose Acetate	2.0-5.0%	●	○	●	●	●	○	✓
PolyGlide 1226XF	HDPE/ceramic	0.5-1.5%	●	●		●	●	●	
NEW PolyTuf® 1229 	LDPE/ceramic	0.5-1.5%	●	●		●	●	○	
Superslip 6515AL 	HDPE/amide/ aluminum oxide	0.5-1.5%	●	●	●	●	●	●	
Superslip 6530	HDPE/EBS	1.0-3.0%	●	●	●	●	●	●	

● Extremely Effective ● Very Effective ○ Effective

 Natural or naturally derived

 Available as a waterbased dispersion