

## Paraffin Waxes

Paraffin Waxes are sold in various grades differing from one another in melting point and in the distribution of hydrocarbons. Straight chain saturated hydrocarbons are the predominant functionality with small amounts of unsaturated and branched hydrocarbons.

### Applications:

Polishes, Cosmetics, Candles, Waterproofing, Sealing, Lubricating; Protection of Plants, Fruits, Cheeses, and Vegetables; Food Packaging, Paper, Crayons, Inks, Coatings, Pharmaceutical Ointments, Salves, Electronic Insulation, and Hot Melt Adhesives.

### Advantages:

Paraffin Waxes are non-toxic and non-irritating to the skin and eyes.

### Regulatory:

INCI Name: Paraffin

CAS#: 8002-74-2

## Microcrystalline Waxes

Microcrystallines (Micros) are amorphous-like in appearance and flexible. Micros have higher tensile strength and more adhesion than paraffin, are less oily, and typically have a higher melting point than paraffin. The largest proportions of molecules are branched chain hydrocarbons with some straight chain hydrocarbons present.

### Applications:

Cosmetics, Pharmaceuticals, Protection of Plants, Fruits, Cheeses, and Vegetables; Food Packaging, Textiles, Paper, Fiberboard, Wood, Potting Compounds for Condensers, Floor Polishes, Furniture, Skis, Leather, Rust Prevention, Rubber, **Printing Inks**, and Lubricants.

### Advantages:

Microcrystalline Waxes are non-toxic and non-irritating to the skin and eyes. Micros are compatible with most mineral waxes, vegetable waxes, esters, and all their oils.

### Regulatory:

INCI Name: Microcrystalline Wax

CAS#: 63231-60-7

Wax#	Wax Name	Melting Point	Congealing Point	Penetration	Color
196	Paraffin 127	127 - 130°F	126 - 130°F	11 - 17	White
125	Paraffin 130/135	130 - 135°F	129 - 134°F	11 - 18	White
168	Paraffin 133/142	133 - 142°F	-	-	White
126	Paraffin 140/145	140 - 145°F	139 - 144°F	11 - 18	White
127	Paraffin 150/155	150 - 155°F	149 - 154°F	8 - 15	White
175	Paraffin 160/165	160 - 165°F	159 - 164°F	8 - 13	White
227	Microcrystalline 145/155	145 - 155°F	143 - 154°F	20 - 30	Off White to Light Yellow
331	Microcrystalline 150	150 - 160°F	148 - 162°F	20 - 35	White
161	Microcrystalline 165/175	165 - 175°F	163 - 175°F	60 - 80	White
140	Microcrystalline 170/180	170 - 180°F	169 - 179°F	25 - 35	White
146	Microcrystalline 180/185	170 - 185°F	170 - 178°F	10 - 16	White to Light Yellow
118	Microcrystalline 193/198	180 - 198°F	192 - 197°F	5 - 9	White to Light Yellow

Specific waxes that are most appropriate for this category have been highlighted here