

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