



## MICROCRYSTALLINE WAXES

**PRODUCT DESCRIPTION.** Microcrystalline waxes consist of odorless, tasteless, nonpolar hydrocarbons with relatively high melting points. Sonneborn Multiwax® grades vary in color from white to yellow, and in such physical properties as hardness and melting point.

**APPLICATIONS.** Sonneborn has a broad product line of microcrystalline waxes. Our waxes act as bases for chewing gum, and as cold-flexible coatings for cheese wheels. They are natural bases in lipstick, cold creams, and ointments, where they harden, lubricate, carry pigments and medication, and protect against moisture.

Multiwax plays an important role in food packaging. Wax-impregnated paper, film, foil, and corrugated board protect foods from moisture. Multiwax helps hot melt adhesives flow readily and form flexible bonds.

Many of the wax products we use daily, from crayons, candles, and caulk to sealants and fine wood polishes, start with Sonneborn Multiwax. Our microcrystalline waxes act as carriers for compounds that prevent rust in a wide range of industries.

**PRODUCTS.** Sonneborn is one of the world's largest producers of microcrystalline waxes. With dedicated wax manufacturing lines we rank among the most dependable suppliers. We ship waxes as bulk liquids, as well as in slabs or pallets.

Sonneborn's standard Multiwax grades all meet FDA CFR 172.886 and 178.3710 requirements for food-grade petroleum waxes as well as requirements of the hard paraffin monograph of the European Pharmacopoeia. In addition they meet the requirements of the European Directive for plastic materials intended to come into contact with foodstuffs and comply with recommendations of Colipa. We also provide a variety of technical grades.



# MICROCRYSTALLINE WAXES: TYPICAL PROPERTIES & APPLICATIONS



## MICROCRYSTALLINE WAX SPECIFICATIONS

Product	Melting Point °C ASTM D-127	Congeaing Point °C ASTM D-938	Needle Penetration mm x 0.1 @ 25°C ASTM D-1321	Viscosity mm <sup>2</sup> /s @ 100 °C ASTM D-445	Colour ASTM D-1500
Multiwax 180 M-H	82 - 87	74 - 79	15 - 20	13 - 18	2.0 max.
Witcotack 143	81 - 86	73 - 79	17 - 22	13 - 18	2.0 max.
Multiwax ML 445-H	79 - 84	71 - 76	25 - 32	13 - 18	2.0 max.
Witcovar 146	78 - 83	69 - 74	37 - 42	13 - 18	2.0 max.

All above grades of Multiwax comply with FDA requirements CFR 172.886 and 178.3710 as well as the hard paraffin monograph of the European Pharmacopoeia. In addition they meet the requirements of the European Directive for plastic materials intended to come into contact with foodstuffs and comply with recommendations of Colipa. Many of the above grades are available on special order in colours other than those listed above.

## MULTIWAX® MICROCRYSTALLINE APPLICATIONS

	180 M-H	ML 445-H	Witcovar 146	Witcotack 143
Candles	■	■	■	■
Chewing Gum	■	■		■
Cosmetics		■	■	
Lipcare		■	■	
Crayons		■	■	
Dental Products		■	■	
Electrical Grades	■	■		■
Hot Melt Adhesives	■	■		■
Ink Grades		■	■	
Laminating Grades		■	■	
Lubricating Grades		■	■	
Modifying Grades	■	■		■
Pharmaceutical Grades	■	■	■	■
Rustproofing Grades	■	■	■	■
Sculpture Grades		■	■	
Sealant Grades		■	■	