

Issued: 1/28/2013

## Specifications for <u>MULTIWAX® ML-445 Microcrystalline Wax</u>

PROPERTIES GUARANTEED	TEST METHOD	LIMITS
Residue On Ignition	NF (current revision)	0.10 Max
Organic Acids	NF (current revision)	PASS
Alkalinity	NF (current revision)	PASS
Acidity	NF (current revision)	PASS
Fixed Oils, Fats, And Rosin	NF (current revision)	PASS
Color	NF (current revision)	PASS
Residual Solvents, Reportable Quantity	USP 467	NONE
Melting Point, °C	ASTM D127	76.7/82.2
Melting Point, °F	ASTM D127	170/180
Penetration @ 77°F	ASTM D1321	25/35
Color	ASTM D1500	1.0/2.0
Viscosity @ 210°F, SUS	ASTM D2161	75/90
Odor Rating, Panel Average	LATM 093	1.5 Max.
Flash Point, COC, °F	ASTM D92	530 Min.

This product is a Microcrystalline Wax NF meeting requirements for NF (current revision) and FDA requirements as per 21 CFR 172.886

020112414A

13835

The information contained herein is correct to the best of our knowledge. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to Sonneborn's standard terms and conditions of sale, copies of which are available upon request and which are part of Sonneborn's invoices and/or order acknowledgments. Except as expressly provided in Sonneborn's standard terms and conditions of sale, no warranty, express or implied, including warranty of merchantability or fitness for particular purpose, is made with respect to the products described herein. Nothing contained herein shall constitute permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

Sonneborn,LLC 600 Parsippany Road Suite 100 Parsippany, NJ 07054 Technical Service 877.541.7144 Customer Service 877.948.2688 Fax 724.756.9386 www.sonneborn.com