



Microspersion® 523AL-50

A nonionic water based dispersion of a highly engineered HDPE/PTFE/alumina nanocomposite for unsurpassed scratch and scuff resistance

Features and Benefits

- Convenient, ready-to-use, pourable nonionic wax dispersion
- Maximum scratch and abrasion resistance with slip and lubricity
- HDPE/PTFE composite reinforced with 300 nm aluminum oxide nanoparticles (Mohs Hardness 9.0)
- Easier-to-disperse nanotechnology in a safe, non-nano powder
- Composite particle density maximizes efficiency and minimizes settling

Dry Wax ID

Polyfluo 523AL

Recommended Addition Levels

2.0-5.0% (on total formula weight)

Systems and Applications

Water based coatings. Industrial coatings (including plastic and metal); stains, sealers and varnishes; wood coatings; printing inks and OPV's (including flexo and gravure); interior and exterior can and container coatings.

Typical Properties*

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Wax Solids	50%
Viscosity @ 25 °C (cP)	5,000 - 9,000
pH	9.0 - 10.5
Density @ 25 °C (g/cc)	1.04
Wax Mean Particle Size (µm)	3.5 - 5.5
NPIRI Grind	1.0 - 2.0

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*The above data reflects typical properties. Please contact Micro Powders for official product specifications. The information contained herein is to the best of our knowledge true and correct and any suggestions are made without guarantee, express or implied, since conditions of use are beyond our control. Micro Powders, Inc. disclaims any liability incurred in connection with the use of any data or suggestions. Nothing contained herein shall be construed as a recommendation to infringe on any existing patents covering any material or its use.