



» APPLICATION BULLETIN

Mevopur™ Healthcare Functional Additives Nucleating Agents

Colors are used in the medical industry for brand recognition, the coding of different pharmaceuticals, or visual appeal. However, pigments used to color plastic parts can cause warping or shrinking, leading to dosing inaccuracy or even malfunctioning healthcare devices.

The Mevopur™ Healthcare Functional Additives portfolio includes nucleating agents that neutralize the negative effect pigments can have on the mechanical properties of the finished plastic part. The additives reduce production variability, warping, and shrinking. By improving mechanical properties, they enable wall thinning and reduce material usage, without compromising the performance of the plastic part.

The nucleating agents also foster constant process settings throughout part manufacturing with a higher crystallization temperature for improved crystallization speed. This can lead to a cycle time reduction of 5–15%.

APPLICATIONS

- Drug delivery devices
- Pharmaceutical packaging
- Medical equipment

KEY CHARACTERISTICS

- Manufactured at several ISO 13485 certified sites across the globe, providing consistency and increased security of supply
- Documented change control beyond CAS number level, reducing the risk of change
- Enables crystallization in semi-crystalline polymers to begin faster and complete earlier

REGULATORY SUPPORT

- Raw materials tested to:
 - ISO 10993-1 and USP <87> <88> biological evaluation
 - European Pharmacopeia 3.1.3/3.1.5 (polyolefin) or 3.1.15 (polyester)
 - USP <661.1> (polyethylene, polyester)
 - ICH Q3D elemental impurities
- Registered Drug Master File (Type III) and/or Device Master File
- Food contact declaration according to US FDA/EU*

* US FDA/EU compliance information available upon request



Healthcare use limitations apply—see below.

1.844.4AVIENT
www.avient.com



Copyright © 2026, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as “typical” or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient’s products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Avient is committed to the needs of our healthcare customers. As part of our commitment, we publish Avient’s Mevopur™ product policy and use limitations to assist customers in their product selection.

It is the responsibility of the medical device manufacturer and the person placing the medical device on the market to ensure compliance of the medical device with all applicable laws and regulations, including the suitability of all raw materials and components used for its manufacture.

Please be aware that there are certain applications Avient’s Mevopur products have not been designed for, nor are they promoted or intended for use in: including, but not limited to long-term or permanent implants, birth control devices, or plastic surgery.

For more detailed information on Mevopur uses and restrictions see www.avient.com/healthcare-use-limitations-mevopur-products or contact your Avient sales representative.