

Product Information

VESTOSINT® 2157 NC V200783

VESTOSINT® fine powders are high-performance additives made of polyamide 12. They are available in particle sizes ranging from 7 to 64 µm (d50). The exceptional performance attributes of VESTOSINT® arise from the unique dissolution and precipitation production process and its base polymer. Polyamide 12 exhibits excellent abrasion resistance, toughness, impact properties, low water absorption and simultaneously resistance to various chemicals such as oils, fuels, solvents, and salt solutions. The different particle size distributions of VESTOSINT® fine powders can be used individually or in mixtures. The functional acid end groups of VESTOSINT® polyamide particles allow them to be incorporated into polymer matrices to enable core performance benefits.

PRODUCT DESCRIPTION

Polyamide 12 fine powder for additive applications.

Typical Properties

Property	Unit	Value
Bulk Density Powder EN ISO 60	g/l	430
Color		natural color
Density EN ISO 1183	kg/m ³	1020
Humidity Absorption 23°C, 50% r.F., EN ISO 62	wt%	0.5
Melting Point EN ISO 11357	°C	-180
Particle Size d50 ISO 13320	µm	52
Product Form		powder
Water Absorption 100 °C, immersion, EN ISO 62	wt%	1.9

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Paint & lacquer additive

BENEFITS & ADVANTAGES

- Low coefficient of friction
- Increased abrasion resistance
- Matting
- Deep matting
- Structuring
- Texturing
- Increased elasticity
- Reduced soiling
- Availability of functional acid endgroups
- Reactive bonding to resins
- Low settlement
- Low viscosity increase
- Mar resistance
- High chemical resistance
- Low water absorption
- Excellent impact properties
- High elasticity
- Good electrical insulation and dielectrical strength

HANDLING & PROCESSING

The product should be processed on a first in first out basis.

TRANSPORTATION

This product is not regulated as a dangerous good.

PACKAGING

375 kg in small boxes (25 x 15 kg; 1 pallet)

STORAGE

Please follow the instructions provided in the safety data sheet. The product must be stored in weather-protected areas with the packaging remaining intact and unopened. Avoid elevated temperatures during storage. The product should be processed on a first-in, first-out (FIFO) basis.

SHELF LIFE

Shelf life is at least 2 years from the production date if the packaging is not damaged or opened.

HAZARDOUS SUBSTANCE

VESTOSINT® powders are non-toxic, not subject to labeling under the hazardous materials regulation and are not

water-polluting. The Safety Data Sheet for VESTOSINT® provides further instructions.

REGISTRATION LISTING SUMMARY

For more information, refer to the product Safety Data Sheet.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH

High Performance Polymers
Paul-Baumann-Straße 1
45764 Marl
Germany
Phone +49 2365 49-9878
evonik-hp@evonik.com