Product Information

VESTOSINT® 1141 YE 9.2156

VESTOSINT® powders are high-performance materials based on polyamide 12. Their exceptional properties result from a unique dissolution and precipitation production process combined with the inherent characteristics of the base polymer. Product properties optimized for fluidized bed coating application ensures reliable and efficient processing. Polyamide 12 offers outstanding abrasion resistance, toughness, impact strength, and low water absorption, while also providing excellent resistance to a wide range of chemicals, including oils, fuels, solvents, detergents, cleaning agents, and salt solutions. These intrinsic material properties, combined with excellent processability, enable superior corrosion protection and deliver exceptional durability even in challenging environments.

PRODUCT DESCRIPTION

Polyamide 12 powder suitable for all-purpose fluidized bed coating.

Typical Properties

Property	Unit	Value
Bulk Density Powder EN ISO 60	g/l	≥500
Color traffic yellow, close to RAL 1023		yellow
Density EN ISO 1183	kg/m³	1020
Melting Point EN ISO 11357	°C	~180
Particle Size (<32, w%), ISO 13320	µm	≤2.5
Particle Size d50 ISO 13320	µm	100
Product Form		powder
Rel. Solution Viscosity EN ISO 307		1.6

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

- Wire products
- Automotive
- Fluid transportation
- Industrial items
- Medical supplies
- Electronics
- Heavy industry
- Printing roller
- Bearings

BENEFITS & ADVANTAGES

- Superb surface finish
- Excellent corrosion protection
- High chemical resistance
- Low water absorption
- Excellent impact properties
- High abrasion resistance
- High elasticity
- Noise and virbation dampening
- Low thermal conductivity
- Good electrical insulation and dielectrical strength
- Easy to clean
- No surface fouling

HANDLING & PROCESSING

Recommended to be processed by fluidized-bed coating. Processing can be carried out using fluidized-bed coating, mini-coating, or flame spraying.

Typical powder handling.

The product should be processed on a first-in, first-out (FIFO) basis.

TRANSPORTATION

This product is not regulated as a dangerous good.

PACKAGING

1000 kg in bags (50 x 20 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