

ULTRASIL® VN 3

Characteristic physico-chemical data*

Properties and test methods	Unit	Value
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	180
Loss on drying 2 h at 105°C following ISO 787-2	%	5.5
pH value 5 % in water following ISO 787-9	-	6.2
Tamped density following ISO 787-11	g/l	160
Sieve residue Mocker 63 µm following ISO 787-18	%	≤ 0.10
Electrical conductivity 4 % in water following ISO 787-14	µS/cm	≤ 1300
SiO ₂ content ¹⁾ following ISO 3262-19	%	≥ 97
Fe content ^{1) 2)}	ppm	≤ 400
Cu content ^{1) 2)}	ppm	≤ 6
Mn content ^{1) 2)}	ppm	≤ 6
Package size paper bag (net)	kg	25
Package size FIBC (net)	kg	450
1) based on ignited substance (2 h/1000°C) 2) internal method *) The given data are typical values. Specifications on request.		

Chemical description

SiO₂, synthetically produced amorphous silicon dioxide

Registration

ULTRASIL® VN 3

CAS-No.	112926-00-8 7631-86-9
DSL (Canada)	registered
IECSC (China)	registered
REACH (Europe)	registered
ENCS (Japan)	registered
KECI (Korea)	registered
NZIoC (New Zealand)	registered
PICCS (Philippines)	registered
TSCA (USA)	registered
AICS (Australia)	registered

ULTRASIL® VN 3 GR as a precipitated silica is used as a reinforcing filler in all kind of rubber applications.

Properties and applications

With its high reinforcing potential ULTRASIL® VN 3 imparts to rubber compounds particularly high Shore hardness, tensile strength, tear resistance and abrasion resistance. In order to achieve optimum rubber-technical data the addition of activators like glycols, amines or other alkaline accelerators is necessary. On account of the higher surface area ULTRASIL® VN 3 can provide vulcanizates of excellent transparency.

Safety and Handling

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Industries AG, Product Safety Department, E-MAIL: sds-im@evonik.com. We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

Our silica products are inert and extremely stable chemically. However, due to their high specific surface area, they can absorb moisture and volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storing the products in sealed containers in a dry, cool place, and removed from volatile organic substances. Even if a product is stored under these conditions, after a longer period it can still pick up ambient moisture over time, which could lead to its exceeding the specified moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

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