

ULTRASIL® VN 3 GR ex EWS

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
Pour density following ASTM D1513	g/l	275
SA Ro-Tap (> 300 μm) following ISO 5794-1F	%	≥ 80
SA Ro-Tap (< 75 μm) following ISO 5794-1F	%	≤ 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	≤ 600
Cu content ^{1) 2)}	ppm	≤ 6
Mn content ^{1) 2)}	ppm	≤ 6
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 GR ex EWS

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 ex EWS as a precipitated silica is used as a reinforcing filler in all kind of rubber applications.

Properties and applications

ULTRASIL® VN 3 GR ex EWS is a mechanically compacted granulate. On account of the granulation process it leads to less dust development during mixing.

ULTRASIL® VN 3 GR ex EWS has a high reinforcing potential and imparts to rubber compounds 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 GR ex EWS can provide vulcanizates of excellent transparency.

Application fields are: Tires, mechanical rubber goods, cables and shoe soles of all kinds.

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 Resource Efficiency GmbH, Product Safety Department, E-MAIL: sds-hu@evonik.com. We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

For details regarding our packaging options for this product, please contact your local sales representative.

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.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Applied Technology

Evonik Resource Efficiency GmbH

Business Line Silica
Applied Technology Tire & MRG
Brühler Straße 2
50389 Wesseling
Germany
PHONE +49 2236 76 3489
ask-si@evonik.com
www.ultrasil.evonik.com

Europe/ Middle-East/

Africa/ Latin America

Evonik Resource Efficiency GmbH

Business Line Silica
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59 8118
FAX +49 6181 59 78118
ask-si@evonik.com
www.ultrasil.evonik.com

North America

Evonik Corporation

Business Line Silica
299 Jefferson Road
Parsippany, NJ 07054-0677
USA
PHONE +1 888 745-4227
FAX +1 732 981-5275
ask-si@evonik.com
www.ultrasil.evonik.com

Asia-Pacific

Evonik (SEA) Pte. Ltd.

Business Line Silica
3 Internatioanl Business Park
#07-18, Nordic European Centre
Singapore 609927
PHONE +65 6 809 6851
FAX +65 6 809 6651
ask-si-asia@evonik.com
www.ultrasil.evonik.com