

COUPSIL® 8113/8113 GR

Technical data

Properties and test methods	Value	Unit	Method
Sulfur content	2.6	%	Evonik method
Volatiles	3.5	%	Evonik method
pH-value	6.6		ISO 787-9
COUPSIL® 8113			
Tamped density	220	g/l	ISO 787-11
Appearance	white powder		
COUPSIL® 8113 GR			
Pour density	310	g/l	ASTM D 1513
Appearance	white granules		

Registration

COUPSIL® 8113/8113 GR

IECSC (China)	listed
EINECS (Europe)	pre-registered
ENCS (Japan)	listed
KECI (Korea)	listed
PICCS (Philippines)	listed

Precipitated silica, surface-modified with organosilane Si 69° for application in the rubber industry. This product is available in powdered as well as in granulated form with the extension GR.

Description

Reaction product of organosilane Si 69° [Bis(tri-ethoxysilylpropyl) polysulfide] and ULTRASIL® VN 3 (specific surface area 180 m²/g).

The product consists of 100 parts of ULTRASIL® VN 3 modified with 12.7 parts of Si 69°. Since the reaction between the organosilane and the silica is nearly completed, COUPSIL® 8113/8113 GR offers the advantage of a homogeneous modification with low moisture adsorption during storage and significantly lower development of ethanol during mixing and processing.

Properties and application

COUPSIL® 8113/8113 GR are used as a reinforcing filler in rubber compounds. They react with unsaturated polymers during vulcanization under formation of covalent chemical bonds. This imparts greater tensile strength, higher moduli, reduced compression set, increased abrasion resistance and optimized dynamic properties. Both products are used in many fields of the rubber industry in combination with white fillers and where optimum technical properties are required.

Application fields are:

Low rolling resistant tires with high wet grip and low heat generation, mechanical rubber goods, shoe soles.

Packaging and storage

COUPSIL® 8113/8113 GR - 12 months

To ensure that product properties and application behavior remain unchanged, our precipitated silicas and silicates ought to be stored in closed and dry premises protected against exposure to volatile substances. Strict observance of optimum storage conditions ensures prolonged usability, nevertheless we recommend not to exceed a storage period of approximately one year.

Forms of supply:

12.5 kg Paper Bags for COUPSIL® 8113
20 kg PE-bags for COUPSIL® 8113 GR

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, IM-PT-PS

e-mail sds-im@evonik.com

Phone +49 6181 59-4787

Fax +49 6181 59-4205

We recommend that information concerning the product safety of our organosilanes be obtained and carefully read prior to their use.

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to 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.

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