

Product information

# **COUPSIL® VP 6411**

# Characteristic physico-chemical data

Properties and test methods	Value	Unit	Method
Sulfur content	1.15	%	Evonik method
Volatiles	7.0	%	Evonik method
pH-value	7.2		ISO 787-9
Tamped density	220	g/I	ISO 787-11
Appearance	white powder		

# Registration

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IECSC (China)	listed
REACH (Europe)	listed
ENCS (Japan)	listed
KECI (Korea)	listed
TECSI (Taiwan)	listed

Precipitated silica, surface-modified with organosilane Si  $264^{\text{TM}}$  for application in the rubber industry.

# **Description**

Reaction product of organosilane Si 264™ [3-Thiocyanato-propyltriethoxysilan] and ULTRASIL® VN 2 (specific surface area 130 m²/g). The product consists of 100 parts of ULTRASIL® VN 2 modified with 11 parts of Si 264™. Since the reaction between the organosilane and the silica is nearly completed, COUPSIL® VP 6411 offers the advantage of a homogeneous modification with low moisture adsorption during storage and significantly lower development of ethanol during mixing and processing.

# Applications and properties

COUPSIL® VP 6411 is used as a reinforcing filler in rubber compounds. It reacts 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. It is used in many fields of the rubber industry in combination with white fillers and where optimum technical properties are required.

Application fields are: Mechanical rubber goods

# Packaging and storage

#### COUPSIL® VP 6411 - min. 24 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 time > 24 months.

#### Forms of supply:

12.5 kg Paper Bags - 375 kg pallet

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

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