

# ULTRASIL® 6100 GR

## Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (N <sub>2</sub> ) Multipoint following ISO 9277	m <sup>2</sup> /g	160
Specific surface area (CTAB) following ISO 5794-1 G	m <sup>2</sup> /g	155
Loss on drying 2 h at 105°C following ISO 787-2	%	5.5
pH value 5 % in water following ISO 787-9	-	6.5
Electrical conductivity 4 % in water following ISO 787-14	µS/cm	≤ 1300
Sieve analysis <75 µm, Ro-Tap following ISO 5794-1 F	%	≤ 10.0
Sieve analysis 300 µm, Ro-Tap following ISO 5794-1 F	%	≥ 80.0

ULTRASIL® 6100 GR is a product based on precipitated silica. SiO<sub>2</sub>, synthetically produced amorphous silicon dioxide.

## Properties and applications

ULTRASIL® 6100 GR is a highly dispersible and highly reinforcing silica which was especially developed for application in low rolling resistant passenger car tire tread compounds. It imparts to tread compounds high abrasion resistance combined with excellent rolling resistance and wet traction. To achieve the full potential of these properties in high-performance passenger car tires, it is necessary to use ULTRASIL® 6100 GR and a bifunctional organosilane, such as Si 69°, Si 75°, Si 266° or Si 363°. Additionally, we recommend to use alkaline accelerators like Si 403° in order to reach optimal cure characteristics together with best rubber-technological data.

Fields of Application: Tires, Mechanical Rubber Goods

## 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 Operations, Product Safety Department, E-MAIL [sds-im@evonik.com](mailto:sds-im@evonik.com) We recommend to read carefully the safety data sheet prior to the use of our product.

## Registration

### ULTRASIL® 6100 GR

CAS-No.	112926-00-8 7631-86-9
C&L inventory (Europe)	notified
EC (Europe)	231-545-4
REACH (Europe)	registered
ENCS (Japan)	registered
KECI (Korea)	registered
NZIoC (New Zealand), AICS (Australia)	registered
PICCS (Philippines)	registered
IECSC (China)	registered
DSL (Canada), TSCA (USA)	registered

## Packaging and storage

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

Our silica products are inert and chemically stable. 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, remote 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 it exceeding the specified moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product older than 24 months 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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### Applied Technology

#### Evonik Operations GmbH

Business Line Silica  
Applied Technology Tire & Rubber  
Brühler Straße 2  
50389 Wesseling  
Germany  
PHONE +49 2236 76 3489  
ask-si@evonik.com  
[www.silica-specialist.com](http://www.silica-specialist.com)

### Europe/ Middle-East/

#### Africa/ Latin America

Evonik Operations 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.silica-specialist.com](http://www.silica-specialist.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.silica-specialist.com](http://www.silica-specialist.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.silica-specialist.com](http://www.silica-specialist.com)