

ULTRASIL® 6100 GR

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	160
Specific surface area (CTAB) following ISO 5794-1 G	m ² /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

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

ULTRASIL® 6100 GR is a product based on precipitated silica. SiO₂, synthetically produced amorphous silicon dioxide.

Properties and applications

ULTRASIL® 6100 GR is an 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 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 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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