

ULTRASIL® 360

Characteristic physico-chemical data

| Properties and test methods | Unit | Value |
|---|-------------------|--------|
| Specific surface area (N ₂) Multipoint following ISO 9277 | m ² /g | 55 |
| Loss on drying 2 h at 105°C following ISO 787-2 | % | 5.5 |
| pH value 5 % in water following ISO 787-9 | - | 9.0 |
| Tamped density following ISO 787-11 | g/l | 180 |
| Sieve residue Mocker 45 µm following ISO 787-18 | % | ≤ 0.3 |
| 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 | ≤ 400 |
| 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® 360

| | |
|---------------------------------------|--------------------------|
| 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® 360 has a significantly lower specific surface area than highly active silicas. Due to its very good processability, ULTRASIL® 360 is particularly well suited for extrusion, calendaring and injection molding compounds. It also allows the use of high levels of filler loading. ULTRASIL® 360 imparts a low compression set and excellent dynamic vulcanizate properties to mechanical rubber goods.

Properties and applications

Application fields are: 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 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.

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