

WOSIL™ 350

SiO₂, synthetically produced amorphous silicon dioxide. **WOSIL® 350** is a precipitated silica for use as a reinforcement filler in the rubber industry.

CAS-No. 112926-00-8 / 7631-86-9

Typical Properties

<u>Properties</u>	<u>Unit</u>	<u>Values</u>
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	175
Specific surface area (CTAB) following ISO 5794-1G	m ² /g	160
Loss on drying 2 h at 105°C following ISO 787-2	%	5.2
pH value 5 % in water following ISO 787-9	-	6.5
Pour density following ASTM D1513	g/l	270
Electrical conductivity 4 % in water following ISO 787-14	μS/cm	≤ 1300
SA Ro-Tap (> 300 μm) following ISO 5794-1F	%	≥ 80
SA Ro-Tap (< 75 μm) following ISO 5794-1F	%	≤ 10
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
Package size FIBC (net)	Kg	625

1) Based on ignited substance (2 h/1000°C)

2) Internal method

*) The given data are typical values. Specifications on request.

Applications

WOSIL® 350 is a mechanically compacted granulate. On account of the granulation process it leads to less dust development during mixing. **WOSIL® 350** is an easily 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. Application fields are: Tires, mechanical rubber goods.

To achieve these properties it is necessary to use **WOSIL® 350** and a bifunctional organosilane, such as Si 69®, Si 75®, Si 266® or VP Si 363. Additionally, the use of diethylene glycol, triethanolamine or other alkaline accelerators might be necessary in order to achieve optimum rubber-technical data.

Packaging, Storage & Handling

Our silica products are inert and extremely stable chemically. We recommend storing the products in sealed containers in a dry, cool place, and removed from volatile organic substances. 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.

Application and Dosage

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.