

WOSIL™ 110

WOSIL® 110 as a precipitated silica is used as a reinforcing filler in all kind of rubber applications.

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

Typical Properties

<u>Properties</u>	<u>Unit</u>	<u>Values</u>
Specific surface area (N2) Multipoint following ISO 9277	m ² /g	130
Loss on drying 2 h at 105°C following ISO 787-2	%	5.5
pH value 5 % in water following ISO 787-9	-	6.9
Tamped density following ISO 787-11	g/l	180
Sieve residue Mocker 63 µm following ISO 787-18	µm	≤ 0.1
Electrical conductivity 4% in water following ISO 787-14	µS/cm	≤ 1000
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	450

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

2) Internal method

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

Applications

Due to its lower specific surface area **WOSIL® 110** has a slightly lower reinforcing potential compared to **WOSIL® 120**. It imparts to rubber compounds high Shore hardness, tensile strength, tear resistance and abrasion resistance and offers advantages concerning compound viscosity and processing. 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.

Application fields are: Tires, mechanical rubber goods.

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.