



SORBIN[®]

For ecological emergencies, including oil spills, and
leaks of fuels, lubricants, and
toxic and chemically-aggressive liquids

What is SORBIN?

SORBIN is a unique mineral absorbent with a highly-developed inner surface produced from calcined diatomaceous earth

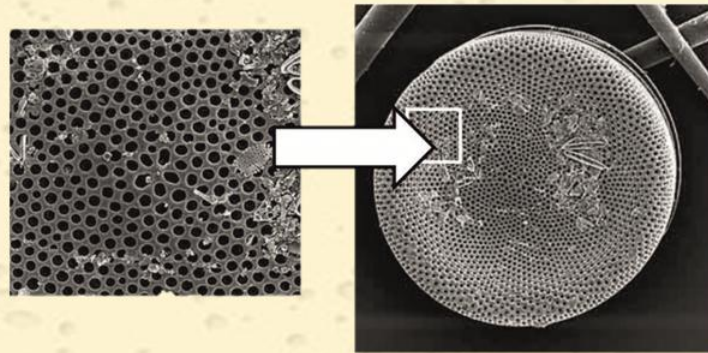
SORBIN is irreplaceable in chemical and ecological emergency works and for the clear-up of spillages in workshops, chemical warehouses, fuel stations, oil stocks, garages and transport

SORBIN removes oil, fuels and lubricants, flammable, explosive, toxic, chemically active substances (acids, alkalis) and other pollutant materials from solid surfaces



SORBIN is made of the unique natural raw material diatomite

Diatomite is a sedimentary silica rock consisting of tiny opalescent folds of ancient diatomite algae – diatoms



Due to the diatoms' structure, SORBIN's surface consists of thousands of unique closed micro- and Nano-pores. As a result, SORBIN is an active absorbent and retains different aggressive liquids and hazardous substances inside its porous structure

How SORBIN works?

Due to its porous structure SORBIN absorbs from solid surfaces:

- ❑ Unrefined oil
- ❑ Fuel and lubricants, oil products
- ❑ Any acids and their mortars
- ❑ Any alkalis and their mortars
- ❑ Any solvents
- ❑ Any liquid reagents
- ❑ Any water mortars
- ❑ Any other liquids spilled on the solid surface

Properties of SORBIN

- ❑ Porous structure with high absorption and retention capacity for any chemically active, flammable or explosive liquids
- ❑ Strong inner structure which resists damage during and after absorption
- ❑ SORBIN is chemically inert, non-toxic, inflammable, non explosive and fireproof



SORBIN Grades

- ❑ **SORBIN UNIVERSAL** is recommended for transport, vehicle maintenance and emergency clean-up companies, for dealing with spillages of hydraulic, cooling and breaking liquids and oil products. SORBIN UNIVERSAL is recommended for everyday usage
- ❑ **SORBIN PLUS** is recommended for chemical industry companies and all other companies using hazardous liquids. SORBIN PLUS has a high absorption capacity
- ❑ **SORBIN SUPERPLUS** is recommended for any companies using toxic, hazardous and explosive liquids. SORBIN SUPERPLUS has an extra high absorption capacity and speed



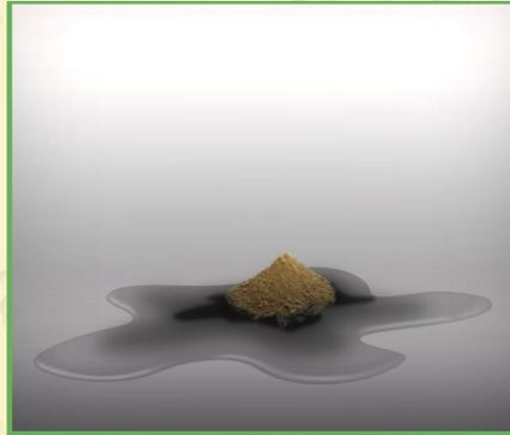
Physical and chemical properties

Characteristic	SORBIN		
	UNIVERSAL	PLUS	SUPERPLUS
Chemical composition (after drying at 110°C)	SiO ₂ - 88.52 % Al ₂ O ₃ - 5.89 % Fe ₂ O ₃ - 2.72% MgO - 0.68% CaO - 0.38% K ₂ O+Na ₂ O - 1.96%		
Loss on ignition at 1050° C	1,2 %		
Specific gravity (g/cm ³)	2,0		
pH (10% water suspension)	6,4		
Colour	Кремовый		
Bulk density, kg/m ³	380	390	400
Absorption capacity in water, %	100	140	160
Absorption capacity in oil, %	75	95	100
Grain size, MM	0,3-0,7	0,7-1,5	1,5-3,0

Advantages of SORBIN

- ❑ **High absorption capacity:** SORBIN absorbs maximum sorbate with minimum quantity of absorbent. That means less storage space, reduced transport costs, less time to clean-up spills and less waste
- ❑ **High strength granules:** SORBIN retains its structure after absorption, meaning the sorbate is contained tightly within the granules
- ❑ **Bulk density and grain size are specially pre-set:** SORBIN granules do not carry in the wind and they have a fast absorption speed
- ❑ **Chemical inertness:** SORBIN does not react with the liquids it absorbs
- ❑ **Long shelf life:** SORBIN can be continually used if stored in the manufacturer's packages

- ❑ Oil companies (mining, transportation and processing)
- ❑ Chemical companies
- ❑ Equipment manufacture and maintenance companies
- ❑ Motor transport companies and service stations
- ❑ Railway stations and blocks
- ❑ Emergency organizations
- ❑ Fuel and filling stations
- ❑ Boiler stations, central heating and power plants
- ❑ Emergency response
- ❑ Ministry of Defense
- ❑ Housing associations and community amenities
- ❑ Construction organizations and private households



The advantages of SORBIN have already been evaluated in many countries across the world



CONTACTS

DIAMIX GROUP

**Lomonosova str, 12, Inza, Ulyanovsk region
433030, Russia**

Tel.: +7 (84241) 2-73-18

Fax: +7 (84241) 2-73-19

sales@diamix.ru

www.diamix.ru