

Technical data sheet SORB[®]XT

version 03.2021

Raw material:

Natural fibre 100 % Bulk structure, organic
 DIN 18300 – soil classes 1-3
 DIN 19682, - fibrous, wood, light brown



Chemical properties	guide value	actual value
1.1 pH-value	4-11	4,7
1.2 salinity	< 0,4	
1.3 soluble main nutrients		
1.3.1 Nitrogen (NH ₄ -N + NO ₃ -N) [mg/l]	< 50	< 50
1.3.2 Phosphor (P ₂ O ₅) [mg/l]	< 30	< 30
1.3.3 Potassium (K ₂ O) [mg/l]	< 40	< 40
1.4 Organic substance [% TM]	> 90	> 90
1.5 Heavy metals (total content)**		
1.5.1 Arsenic (AS) [mg/l]	≤ 0,2	< 0,001
1.5.2 Lead (PB) [mg/l]	≤ 0,2	0,002
1.5.3 Cadmium (CD) [mg/l]	≤ 0,05	< 0,0001
1.5.4 Chromium (CR) [mg/l]	≤ 0,3	< 0,001
1.5.5 Nickel (NI) [mg/l]	≤ 0,2	0,001
1.5.6 Mercury (Hg) [mg/l]	≤ 0,005	< 0,00001
1.5.7 Copper [mg/l]	≤ 1	0,009
1.5.8 Zinc (ZN) [mg/l]	≤ 2	0,013
1.5.9 Fluoride (F) [mg/l]	≤ 5	0,09
1.5.10 Cyanide (CN) [mg/l]	≤ 0,1	< 0,01
1.5.11 Barium (BA) [mg/l]	≤ 5	0,021
1.5.12 Molybdenum (MO) [mg/l]	≤ 0,3	< 0,001
1.5.13 Antimony (SB) [mg/l]	≤ 0,03	0,007
1.5.14 Selenium (Se) [mg/l]	≤ 0,03	< 0,001
1.5.15 Chloride (Cl) [mg/l]	≤ 1500	9,9
1.5.16 Sulphate(SO ₄) [mg/l]	≤ 2000	< 5
1.5.17 Evaporation residue [mg/l]	≤ 3000	570

**CAS 99999-99-4; EINECS/ELINCS: 310-127-6; SVHC List (List of Substances of very high Concern)
 "contents none or less than 0,1% of listed substances (SDB 19072006 – EG – Reach (DE))

Performance:

Properties	
Density	< 140 Gramm / Liter
Hydrophobic	> 97%
Hygroscopic	< 4%
Floatable	> 95 %
Saturation	100%
Self-ignition	265°C - 289°C
Operating life	> 5 Jahre
Absorption -parameters-	
Kg/SORB XT vs l/oil	4,68
l/SORB XT vs l/oil	0,66
absorbtion speed (sec.)	0,5
Application fields	
Type I	water
Type II	water and usual grounds
Type III-R	special and industrial grounds
Oil and lubricants	
Fuels	
Emulsions and many chemicals	
Coulours and further materials	
No danger for human beings and environment	



Testing institutes:
 Institute of Hygiene Gelsenkirchen
 Chemiebüro® Regensburg
 Materials Testing Institute NRW

What questions do **YOU** need to be able to answer on the spot?

Wind susceptibility : "It flies away with every gust of wind!"

Answer: NO, it does not! As seen, an immediate setting process takes place. The absorbed material does not fly away. Loose fibers that should nevertheless blow away are organic and do not harm the environment or people in any way (environmental/hygiene certificate, 100% organic product). A test by one of your distributors (SORB^{®XT} compared with conventional heavy binders right next to a wind machine) showed that the effects caused by the wind generated had the same effect on both.

Not for all substances: "It doesn't help for all substances, after all."

Antwort: YES, that is correct - however, we do not know of a single binder today that has anything like the same qualitative and certified properties as SORB^{®XT} and, moreover, can be used for almost any application (Type I, II, III-R). SORB^{®XT} has an extraordinarily wide range of absorption possibilities for a very large number of liquids. It also absorbs very problematic and hazardous chemicals. Upon request, we will provide you with the current list of chemicals. If you have any specific information about absorption of liquids that have not yet been tested, please let us know. We will arrange a test immediately at the factory/laboratory. Alternatively, we will give you a 15L bag without charge so that you (user) can test and report on site. You are familiar with the handling of "your" substance.