

## BuuMsorb® Type I SF- First Aid for Oil and Chemical accidents



- 100% natural product - harmless to humans, flora and fauna.
- no abrasive or chemical components
- absorbs dangerous Substances - **on solid ground and on water**
- low flammability
- 1 SU- 10 x 1 meter hoses

Test results on the absorption of BuuMsorb® Type I SF according to the guidelines of the Federal Institute for Materials Research (BAM) by an independent testing institute (Dr. Biernath-Wüpping GmbH-IGH)

The conversions of the test results contained in volume and mass data was carried out by determining the bulk weight of the test material and literature data on the density of the test liquid to be absorbed.

Moreover, the reaction of the cotton material with concentrated phosphoric acid, concentrated hydrochloric acid, concentrated sulfuric acid, 10% dilute sulfuric acid and benzoyl chloride was tested.

- A change in structure of the cotton fabric was held only with concentrated sulfuric acid. (decomposition after about 1 hour)
- Higher-viscous liquid in a volume measurement was inadequate, only a qualitative assessment was made.

## 1. Absorption effect towards hydrous liquids

Liquid	Substances or major Components	1 Litre BuuMsorb® absorbs	1 Kilo BuuMsorb® absorbs	Condition after 48 hours storage time	Color
ammonia-concentrate	alkalis	1,76 l	7,27 l	dry, pourable	dark brown
ammonia-diluted 10%	alkalis	1,49 l	6,18 l	dry, pourable	brown
fixing bath	saline solutions	0,60 l	2,48 l	dry, pourable	light brown
sodium hydroxide- 33%	alkalis	1,63 l	6,75l	moist, runny	dark brown
phosphoric acid-85%	inorganic acids	0,98 l	4,03 l	moist, sticky	dark brown
hydrochloric acid-concentrate	inorganic acids	1,47 l	6,07 l	dry, pourable	light brown
hydrochloric acid-diluted 10%	inorganic acids	1,09 l	4,52 l	dry, pourable	light brown
sulfuric acid-concentrate	inorganic acids	2,00 l	8,28 l	wet, sticky	black brown
sulfuric acid-diluted 10%	inorganic acids	1,16 l	4,78 l	dry, pourable	brown

## 2. Absorption effect towards organic liquids

Liquid	Substances or major Components	1 Litre BuuMsorb® absorbs	1 Kilo BuuMsorb® absorbs	Condition after 48 hours storage time	Color
paint stripper	chlorinehydrocarbon /alcohols	*	*	dry, solid	dark brown
acetaldehyd	aldehydes	1,28 l	5,30 l	dry, pourable	brown
acetone	ketones	0,80 l	3,32 l	dry, pourable	brown
aniline	amines	0,86 l	3,57 l	moist, solid	brown
bitumen paint	hydrocarbon-solution	*	*	solid, sticky	black
paint-white	binder/ pigment/ solvent	2,18 l	8,99 l	solid, sticky	white
aqua-red	pigmented color	1,29 l	5,31 l	solid, sticky	brown
benzoyl chloride	acid chlorides	1,02 l	4,24 l	dry, pourable	brown
butylene glycol	polyalcohols	1,28 l	5,30 l	moist, sticky	dark brown
dibutylamine	amines	0,64 l	2,66 l	dry, pourable	brown
chloroform	chlorinehydrocarbon	1,28 l	5,29 l	dry, pourable	brown
diesel fuel	fuels	0,87 l	3,60 l	moist, sticky	dark brown
diethylether	ether	0,92 l	3,79 l	dry, pourable	brown
acetic acid concentrate	organic acids	1,02 l	4,20 l	dry, pourable	light brown
ethyl alcohol	alcohols	0,86 l	3,56 l	dry, pourable	brown
aviation turbine	fuels	0,49 l	2,04 l	dry, pourable	brown

fuel					
glycol	polyalcohols	0,94 l	3,90 l	dry, pourable	dark brown
<b>heating oil EL</b>	<b>fuels-liquid</b>	<b>0,76 l</b>	<b>3,15 l</b>	<b>moist, sticky</b>	<b>dark brown</b>
heating oil S	fuels-liquid	*	*	moist, sticky	dark brown
heptane	hydrocarbons	0,73 l	3,04 l	dry, pourable	brown
lacquer-colorless	binder / solvent	1,42 l	5,87 l	solid, sticky	black
engine lube oil	lubricants	1,60 l	6,59 l	moist, sticky, movable	black brown
petrol	fuels	0,99 l	4,09 l	dry, pourable	brown
pyridine	organic bases	1,04 l	4,31 l	dry, pourable	brown
crude oil	hydrocarbons / compounds	1,11 l	4,60 l	moist, sticky	schwarz
styrene	aromatic hydrocarbons	0,83 l	3,42 l	dry, pourable	brown
tar oil	hydrocarbons / compounds	*	*	moist, sticky	black
carbon-tetrachloride	chlorinated hydrocarbons	1,73 l	7,16 l	dry, pourable	brown
toluene	aromatic hydrocarbons	1,06 l	4,38 l	dry, pourable	brown
plasticizer	ester	1,25 l	5,16 l	moist, sticky, movable	dark brown

For the preparation of an official certificate the test fluid is fuel oil (extra light).