

# PRODUCT SPECIFICATIONS

## BioLoxx™ Natural Spill Absorbent

### PURPOSE & DESCRIPTION

Filtrex **BioLoxx™** is a 100% biobased product<sup>1</sup> that is made from flax shives and engineered to protect workers and the environment by absorbing oils and lubricants that are generated by spills and equipment leaks. In laboratory testing<sup>2</sup>, BioLoxx was significantly more absorbent on a volumetric basis than competing products.

### APPLICATION

Fluids absorbed by BioLoxx include:

- Oil
- Gasoline or any petroleum based product
- Antifreeze
- Diesel
- Paint
- Blood
- Human/animal fluids

### ADVANTAGES

- Silica-free composition does not pose the health hazards associated with clay dust
- Light-weight absorbent bag is easier to handle than clay based products reducing the risk of back injuries when lifting
- Use up to 75% less BioLoxx than clay based products by volume
- Resistant to ignition prior to use which creates a safer working environment
- Does not create nuisance dust
- May be incinerated for disposal after use per state and local government ordinances
- Can be incinerated after use to reduce waste or for fuels blending

### BIOLOXX CHARACTERISTICS

BioLoxx is a renewable material that is 100% biobased. BioLoxx is produced from flax straw, a byproduct of over 200,000 acres of flaxseed harvesting that would be typically burned off or plowed into the soil, potentially adding thousands of tons of carbon dioxide to the atmosphere.

**Table 1.** BioLoxx Specifications

<b>Item Number</b>	F1706
<b>Product Weight</b>	25 lbs / 11.4 kg
<b>Package Dimensions</b>	21.76 in x 29.75 in x 6 in
<b>Class</b>	Absorbent 100% derived from flax straw
<b>Material</b>	Flax Shives
<b>Natural Composition</b>	100% biomass from oilseed flax with no additives based on ASTM D 6866-18
<b>Absorbent Type</b>	Granules
<b>Absorbent Capacity</b>	25 lb bag will absorb up to 12 gallons of petroleum based oil
<b>Material Features</b>	100% Organic, Non-Abrasive, Non-toxic, Silica Dust-Free
<b>Fluids Absorbed</b>	Oil, gasoline or any petroleum based product, antifreeze, diesel, blood, paint, human/animal fluids and more
<b>Disposal</b>	Can be incinerated according the end user's local, state, and federal regulations

### PERFORMANCE

One 25 lb bag of BioLoxx will absorb up to 12 gallons of petroleum based oil. To absorb the same amount of oil, up to 75% less BioLoxx by volume are required when compared to clay-based sorbents (ASTM 726, Sorbent Performance).

### APPLICATION INSTRUCTIONS

1. Sprinkle the perimeter of the spill with BioLoxx to prevent the spill from spreading.
2. Cover the rest of the spill with BioLoxx.
3. With a coarse broom work the BioLoxx completely mixing everything together until it has fully absorbed everything and no liquid is visible.
4. If the remains of the BioLoxx is still brown in color and not muddy looking you may wish to use this on your next spill; otherwise you can dispose this accordingly.

### DISPOSAL

Unlike clay-based sorbents, which must be landfilled for disposal, BioLoxx can be incinerated according the end user's local, state, and federal regulations.

### REFERENCES CITED & ADDITIONAL RESOURCES

<sup>1</sup>Per ASTM D6866 Standard Test Methods for Determining the Biobased Content of Solid, Liquid, and Gaseous Samples Using Radiocarbon

<sup>2</sup>Per ASTM F726 Standard Test Method for Sorbent Performance of Adsorbents for use on Crude Oil and Related Spills

### ADDITIONAL INFORMATION

For other references on this topic, including additional research reports and trade magazine and press coverage, visit the Filtrex website at [filtrex.com](http://filtrex.com)

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**FIELD APPLICATION PHOTO REFERENCES**



BioLoxx flax shive granules.



BioLoxx used for spill cleanup.

**Table 2.** Technical Data

Properties	Value	Standard
Particle size (average)	12.700 mm	SWM Quality Test
Density	368.425 kg/cu m	C.I.C. Standard*
Moisture	8.00 to 10.00 %	C.I.C. Standard
Calorific Value, HHV	20.3227 MJ/kg	Celignis DAF **
Calorific Value, LHV	18.8110 MJ/kg	Celignis DAF **
Carbon	49.36%	EN 1418-2009
Oxygen	38.65%	EN 1418-2009
Hydrogren	6.65%	EN 1418-2009
Nitrogen	1.13%	EN 1418-2009
Sulphur	0.03%	EN 1418-2009
Chlorine	0.0083%	EN 1418-2009
Ash (dry mass)	2.84%	EN 1418-2009

\* CIC Composite Innovation Centre (Canada)

\*\* Celignis Dry Ash free testing (Ireland)