



Sustainable Technology Evaluation and Demonstration (STED) Program

Biobased Sorbents Demonstration



Technology Description

Biobased granular loose sorbents, pillows, socks, and recycled fiber pads for absorbing automotive and industrial fluids such as engine oil and hydraulic fluids.

Potential Impact

- Reduce quantity of sorbent needed for cleanup.
 - 60% cost reduction over the current method of oil spill cleanup.
- Reduce waste generation (use less – biobased sorbent is lighter and more absorbent).
- Biobased granular sorbents reduce occupational health risks from exposure to carcinogenic silica dust in clay-based sorbents.
- If implemented DoW wide, biobased sorbents could potentially save DoW \$6.1M/year.

Benefits

- Improves performance.
- Alternative to petroleum-based polypropylene pads and wipes.
- USDA BioPreferred Certified Product manufactured in USA from renewable and recycled materials.
- Supports reduction of single-use plastics.

Demonstration Sites

- | | | |
|--------------------|---------------|----------------|
| • ANAD | • CCAD | • MCLB Barstow |
| • Redstone Arsenal | • JBLM | • NASA AFRC |
| • Ft. Benning | • Edwards AFB | • FBI Quantico |
| • Ft. Irwin | • NASCC | • TEVOC |

For additional information please contact:

- [DoW STED Program email](#)



Fort Benning Fire and Emergency Services