

Proposed Item for Biobased Designation

The following biobased product information has been collected to support item designation by USDA for the Federal Biobased Product Preferred Procurement Program (FB4P). This summary reflects data available as of July 26, 2006.

Title: Insulating Foam/Wall Construction

Description: Products used as insulation by producing a barrier via thermal envelope.

Manufacturers Identified: 16 manufacturers producing Insulating Foam/Wall Construction have been identified through internet searches, manufacturer's directories, trade associations, and company submissions.

Industry Associations Investigated: The following industry associations have been investigated for member companies producing Insulating Foam/Wall Construction:

- Insulation Contractors Association of America
- Builders WebSource
- United Soybean Board
- Association of the Wall and Ceiling Industry
- National Insulation Association
- Insulating Concrete Form Association
- Structural Insulated Panel Association
- North American Insulation Manufacturers Association
- Cellulose Insulation Manufacturers Association
- Polyisocyanurate Insulation Manufacturers Association

Commercially Available Products Identified: Of the manufacturers identified, 28 Insulating Foam/Wall Construction are commercially available on the market.

Product Information Collected: Specific product information including company contact, intended use, biobased content, and performance characteristics have been collected on 11 Insulating Foam/Wall Construction.

Industry Performance Standards: Product information submitted by biobased manufacturers indicate that have typically been tested to the following industry standards:

- American Society for Testing and Materials #C739-03e1 Standard Specification for Cellulosic Fiber Loose-Fill Thermal Insulation
- American Society for Testing and Materials #E84-05 Standard Test Method for Surface Burning Characteristics of Building Materials

Samples Tested for Biobased Content: 3 samples of Insulating Foam/Wall Construction have been submitted to independent laboratories for biobased content testing as specified by ASTM standard D6866-04.

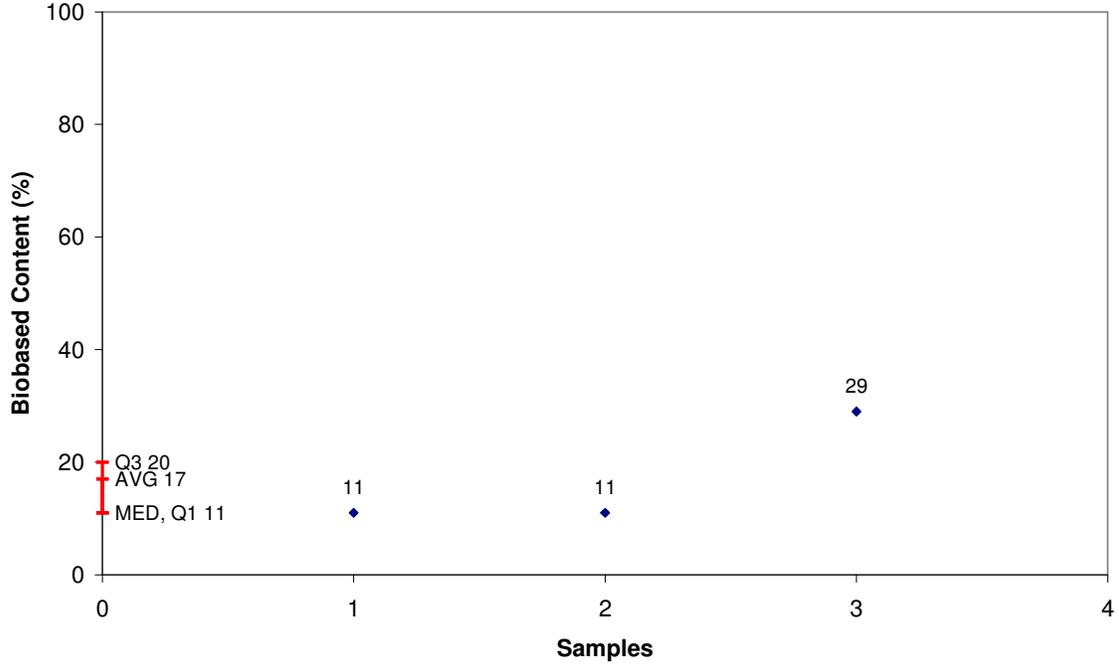
Biobased Content Data: Results from biobased content testing of Insulating Foam/Wall Construction indicate a range of content percentages from 11% minimum to 29% maximum biobased content as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 1 Insulating Foam/Wall Construction have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted Insulating Foam/Wall Construction range from \$1.10 minimum to \$1.10 maximum per usage unit. The environmental scores range from 0.0018 minimum to 0.0018 maximum. A detailed summary of the BEES results is included as Appendix B.

Appendix A - Biobased Content Data

Insulating Foams for Wall Construction

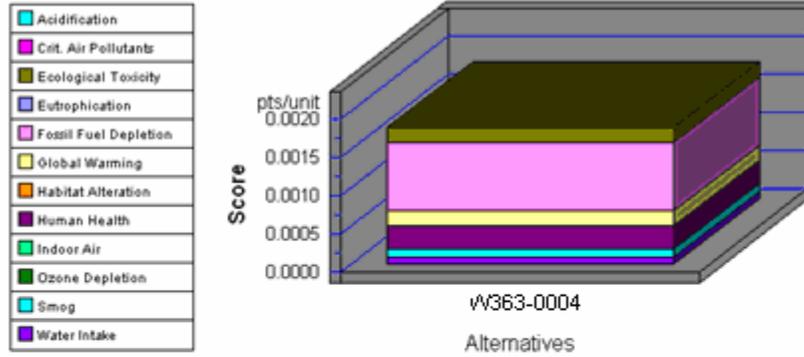


	Manufacturers Identified	Products Identified	C14	BEES
1	W363	W363-0004	11	yes
2	L2V6	L2V6-0001	11	
3	CINJ	CINJ-0002	29	

Appendix B - BEES Analysis Results

Units: Insulating 1 Square Foot of 3.5 Inch Deep Wall Surface over 50 Years

Environmental Performance

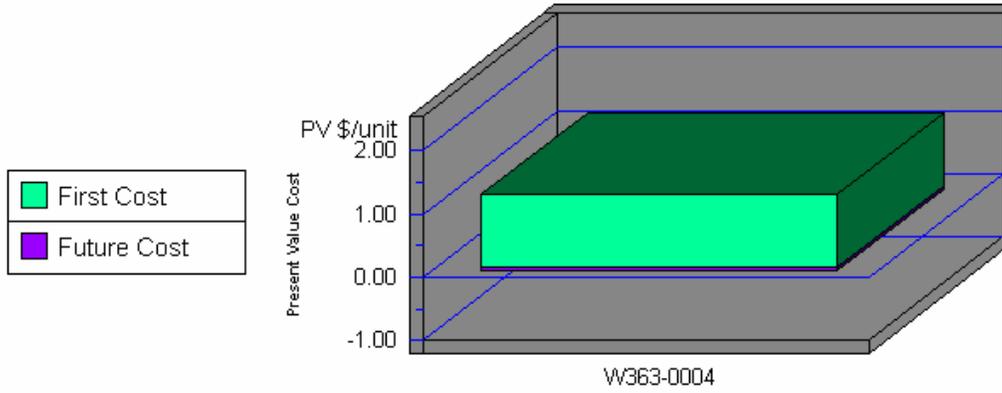


Note: Lower values are better

Category	w363-0004
Acidification--5%	0.0000
Crit. Air Pollutants--6%	0.0000
Ecolog. Toxicity--11%	0.0002
Eutrophication--5%	0.0000
Fossil Fuel Depl.--5%	0.0009
Global Warming--16%	0.0002
Habitat Alteration--16%	0.0000
Human Health--11%	0.0003
Indoor Air--11%	0.0000
Ozone Depletion--5%	0.0000
Smog--6%	0.0001
Water Intake--3%	0.0001
Sum	0.0018

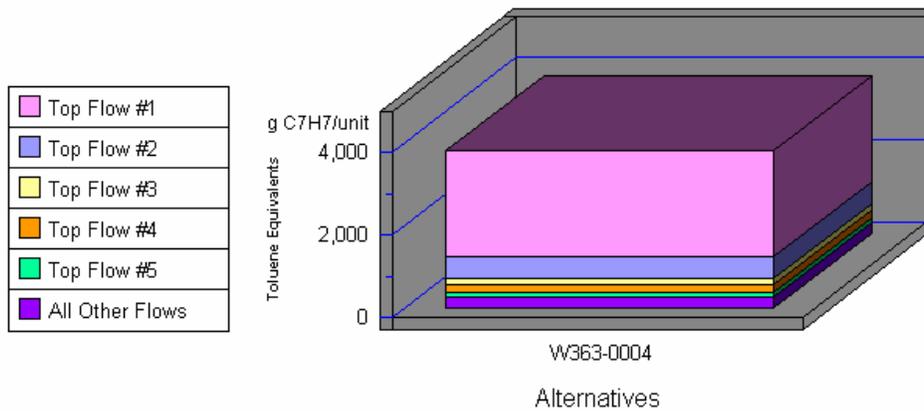
Appendix B (continued)

Economic Performance



Alternatives	
Category	W363-0004
First Cost	1.15
Future Cost-- 3.9%	-0.05
Sum	1.10

Human Health by Sorted Flows*



Note: Lower values are better

Category	W363-0004
Cancer--(w) Phenol (C6H5OH)	2,565.76
Cancer--(a) Dioxins (unspecifc)	539.93
Noncancer--(a) Mercury (Hg)	162.71
Cancer--(w) Arsenic (As3+, As5+)	157.99
Cancer--(a) Arsenic (As)	137.80
All Others	270.59
Sum	3,834.77

*Sorted by five topmost flows