

HPD UNIQUE IDENTIFIER: 29001

CLASSIFICATION: 07 21 13.19 Mineral Board Insulation

PRODUCT DESCRIPTION: Thermafiber® FireSpan® products are designed to provide enhanced fire protection in curtain wall and perimeter fire containment systems. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, mildew resistant and vermin-resistant. Its natural dark color provides shadowing in glass spandrels. FireSpan® 40 & 90 insulations provide thermal insulation, fire containment, enhanced acoustical performance, and vapor control in many different UL and Intertek (formerly OPL) listed fire containment assemblies of 1, 2, and 3-hr ratings. Thermafiber® FireSpan® products are offered with and without a facer with foil facer being the most common facer.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input checked="" type="radio"/> Nested Materials Method <input type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material <input checked="" type="radio"/> Product</p>	<p>Threshold Level</p> <p><input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p>Considered in 2 of 2 Materials</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>All substances screened using Priority Hazard Lists with results disclosed.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>All substances disclosed by Name (Specific or Generic) and Identifier.</i></p>
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CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

THERMAFIBER® FIRES PAN® MINERAL WOOL INSULATION- UNFACED [MINERAL WOOL, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤ 18 % BY WEIGHT **LT-UNK** **UREA PHENOL FORMALDEHYDE** **LT-UNK** **AMMONIUM SULFATE** **LT-P1** | **END** **PETROLATUM (PRIMARY CASRN IS 8009-03-8)** **LT-1** | **CAN | MUL** **RESIDUAL OILS, PETROLEUM, HYDROTREATED** **LT-1** | **CAN | PBT | MUL]** **FOIL FACER [POLYETHYLENE** **LT-UNK** **CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE** **LT-UNK** **ANTIMONY TRIOXIDE** **BM-1** | **MUL | CAN** **ALUMINUM (PRIMARY CASRN IS 7429-90-5)** **BM-1** | **END | RES | PHY]**

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Substances representing 100% of the product weight that are above the 1000 ppm disclosure limit have been evaluated.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: VOC Emissions
Recycled content: ICC-ES VAR Environmental Report™
Multi-attribute: Environmental Product Declaration (EPD) by UL - Product Specific

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-06-24

PUBLISHED DATE: 2022-06-30

EXPIRY DATE: 2025-06-24

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpdc-collaborative.org/hpd-2-2-standard

THERMAFIBER® FIRESpan® MINERAL WOOL INSULATION- UNFACED

#: 97.0000 - 100.0000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES
CONSIDERED: Yes

MATERIAL TYPE: Geologically Derived
Material

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all residual and impurities are considered above the 1000 ppm disclosure limit.

OTHER MATERIAL NOTES: Thermafiber mineral wool products are predominantly composed of slag as the input material, along with smaller amounts of geologic materials like rocks and inorganics.

Thermafiber® FireSpan® Mineral Wool Insulation is available in different thicknesses and densities, therefore, a range is required to represent the entire product line.

MINERAL WOOL, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤ 18 % BY WEIGHT

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-06-24 13:01:23

#: 90.0000 - 98.0000

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Insulator

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Owens Corning instituted internal systems to assure continuous production of acceptable glasses based on state-of-the-art understanding of biosolubility. As a result of those steps, all the fiberglass and mineral wool insulations we sell, anywhere in the world, are continuously evaluated to assure that they are biosoluble, fulfilling the Note Q condition of the European Commission Directive 97/69/EC, and therefore do not present a health risk.

Blast furnace slag provides the recycle content for Thermafiber products.

UREA PHENOL FORMALDEHYDE

ID: 25104-55-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-06-24 13:01:23

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: Unknown

SUBSTANCE ROLE: Binder

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The cured binder is the main component of the binder that holds mineral wool together in the board form.

AMMONIUM SULFATE

ID: 7783-20-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-06-24 13:01:24

#: 0.0100 - 0.1000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Catalyst

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance accelerates the curing reaction of the binder in the oven.

PETROLATUM (PRIMARY CASRN IS 8009-03-8)

ID: 8063-27-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-06-24 13:01:24**

#: **0.0000 - 0.2500** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Dedusting**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]

SUBSTANCE NOTES: Hydrocarbon oil(s) are used to reduce dust during product installation.

RESIDUAL OILS, PETROLEUM, HYDROTREATED

ID: 64742-57-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-06-24 13:01:25**

#: **0.0000 - 0.5000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Dedusting**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]

SUBSTANCE NOTES: Hydrocarbon oil(s) are used to reduce dust during product installation.

FOIL FACER

#: **0.0000 - 3.0000**

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all residual and impurities are considered above the disclosure limit of 1000 ppm.

OTHER MATERIAL NOTES: Only applicable to Thermafiber® FireSpan® Mineral Wool Insulation- Foil Faced Products.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-06-24 13:01:25**

#: **0.0000 - 1.5000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The Polyethylene film is the heat seal bonding layer, used to attach the foil facing to the mineral wool board.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-06-24 13:01:26**

#: **0.0000 - 1.5000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The fiberglass reinforcing yarns adds strength to the foil facer.

ANTIMONY TRIOXIDE

ID: 1309-64-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-06-24 13:01:26**

#: **0.0000 - 0.0600** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Flame retardant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CAN	CA EPA - Prop 65	Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1B]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

SUBSTANCE NOTES: Antimony Trioxide is inextricably bound within the polymer matrix of the facer. This substance is required since Fire Span products are often used as part of fire-rated assemblies.

ALUMINUM (PRIMARY CASRN IS 7429-90-5)

ID: 477951-22-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-06-24 13:01:27**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H228 - Flammable solid [Flammable solids - Category 1 or 2]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H261 - In contact with water releases flammable gases [Substances and mixtures which, in contact with water, emit flammable gases - Category 2 or 3]

SUBSTANCE NOTES: Aluminum foil provides the barrier properties required for a vapor retarder facer. It is analogous to the household aluminum foil that is non-hazardous. Therefore, the warnings that are from the HPD Builder tool for aluminum metal overstate considerably the warnings for aluminum foil.

Most sources of aluminum in North America contain some recycled aluminum; however, the facing vendor does not claim recycle content for their material.

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS	VOC Emissions		
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Wabash, IN, USA; Joplin, Mo, USA CERTIFICATE URL:	ISSUE DATE: 2014-09-01	EXPIRY DATE:	CERTIFIER OR LAB: NA
CERTIFICATION AND COMPLIANCE NOTES: Thermafiber products manufactured with urea-phenol-formaldehyde binder are not included in Owens Corning's products which have GREENGUARD or GREENGUARD Gold certification. However, Owens Corning has done testing at a third-party laboratory to understand product emissions for a number of these Thermafiber products, including Fire Span products.			
RECYCLED CONTENT	ICC-ES VAR Environmental Report™		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Wabash, IN, USA; Joplin, Mo, USA CERTIFICATE URL: https://icc-es.org/reportlisting/var-1025/	ISSUE DATE: 2018-10-01	EXPIRY DATE:	CERTIFIER OR LAB: ICC EVALUATION SERVICE, ICCES
CERTIFICATION AND COMPLIANCE NOTES: VAR-1025 is the ICC-ES certificate for recycle content certification of Thermafiber products.			
MULTI-ATTRIBUTE	Environmental Product Declaration (EPD) by UL - Product Specific		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Wabash, IN, USA; Joplin, MO, USA CERTIFICATE URL: https://spot.ul.com	ISSUE DATE: 2021-10-01	EXPIRY DATE:	CERTIFIER OR LAB: UL Environment
CERTIFICATION AND COMPLIANCE NOTES: Note that this EPD includes plant-specific information per the California Buy Clean requirement. The phenol-urea-formaldehyde binder as well as the formaldehyde free binder options (when available) are also detailed.			

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Thermafiber® FireSpan® Mineral Wool Insulation is available in different thicknesses and densities, therefore, a range is required to represent the entire product line.

MANUFACTURER INFORMATION

MANUFACTURER: Owens Corning
ADDRESS: Owens Corning
 One Owens Corning Parkway
 Toledo Ohio 43659, United States
WEBSITE: www.owenscorning.com

CONTACT NAME: Stan Wolfersberger
TITLE: Sustainability Leader
PHONE: 800-GET-PINK
EMAIL: stan.wolfersberger@owenscorning.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.