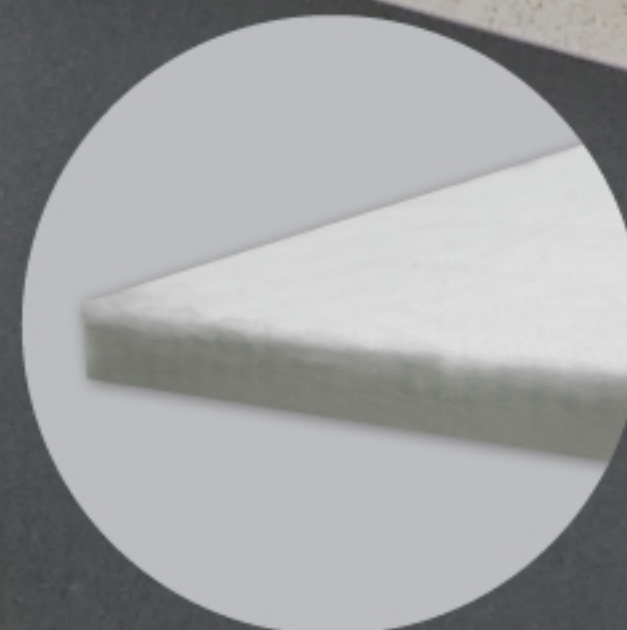


# SCG GLASSWOOL INSULATION

## FOR HOME APPLAINCE



White Wool



Fiber Felt



Vacuum Insulation Panel  
Core Material (VIP Core)



# About **SCG**

**SCG** was established in 1913 following a royal decree of His Majesty King Rama VI to produce cement, the main material for infrastructure construction which was vital to the nation's development at that time.

Since the establishment, SCG has grown and expanded into a diversified group of operations encompassing three core business units, such as SCG Cement-Building Materials, SCG Chemicals, and SCG Packaging.

With more than 200 companies under its umbrella that consists of more than 52,500 employees, SCG creates and distributes innovative products and services that respond to the current and future needs of consumers.

SCG has pledged its commitment to ongoing development, creating innovative products, services, processes, and business models to create value and address the needs of all concerned parties. Further, SCG is dedicated to contributing to the sustainable growth and development of every community where SCG operates.



# SCG Insulation

Siam Fiberglass Co, Ltd. is a subsidiary company of SCG Cement Building Materials business which is Thailand's largest manufacture of building products and a leader in ASEAN region. SFG was established in 1991 produced translucent roof sheets and commenced manufacture of glasswool insulation in 1993. We have been developing and delivering good quality and innovative products to serve our value customers in Thailand and more than 20 countries in the international markets.

# SCG Insulation

## for Home Appliance

As a main leading producer and supplier in Thailand on Glasswool Insulation. SCG Insulation has developed the most effective insulation solutions for optimizing energy efficiency of household appliances. SCG Insulation has specifically developed solution to supply the local OEM manufacturers mainly in 3 categories:

- ▶ White Wool
- ▶ Fiber Felt
- ▶ Vacuum Insulation Panel Core Material (VIP Core)



## Features and Benefits



### Excellent Thermal Insulation

SCG Insulation has a low thermal conductivity which helps retarding heat transfer and conserving energy. Thermal conductivity of 0.035 – 0.040 (W/mK)



### Non-Flammable

SCG Insulation is a non combustible material in according with ASTM E84 and BS476 Part 6 & 7.



### Sound Absorption

SCG Insulation offers an excellent performance which helps reducing noise volume by excellent NRC value (Noise Reduction Coefficient)



### Low Emission and Low VOC

SCG Insulation has no formaldehyde added in the raw material which results in LOW VOC and the product uses no binder very resulting in low chemicals emission.



## Product Variety



### White Wool

#### Description

White Wool products are high temperature thermal insulation and sound absorbing material composed of glass wool bonded with a proprietary sustainable high temperature thermosetting binder with no formaldehyde added. White Wool containing low organic components are specially good compatible with household appliances. Delivery in roll form or die cut at specific pattern and facing ready are available according to customer requirement

#### Application

White Wool can be die cut at any pattern then wrap or patch around heating chamber to protect the heat loss and for safety purpose. White Wool is suitable for classic or conventional electric/gas ovens. White Wool can perform as sound absorbing material.



### Fiber Felt

#### Description

Fiber Felt products are made of long fiber that can vary mixing ratio among glass fiber, polymer fiber and organic fiber by web forming and needling process resulting in compact, dimensional stable felt. This felt contains no additional binder, so almost emission free even at high temperature. This product can be delivered by roll or die cut at specific size and pattern including facing upon requirements.

#### Application

Fiber Felt mainly is a thermal insulation felt material made from proprietary fiber with forming special process then mechanically strengthen by needling process. Fiber Felt can be formulated upon customer requirements and can be die cut at any pattern. Fiber Felt is suitable for heavy duty heating related appliance, i.e. self-cleaning pyrolytic oven, conventional electric/gas oven, filter, battery separator and sound absorption material.



### Vacuum Insulation Panel Core Material (VIP Core)

#### Description

VIP core must be cut and/or pressed and then inserted in a very low gas permeance package then vacuumed until reach specific internal pressure to get ultra low thermal conductivity. Mainly used for high-end refrigerators, vending machines, cold storages, bath tubs and now introducing to the construction market.

#### Application

VIP core material is produced by long fibers and very small fibers of glass wool with special forming technique that use no binder. VIP core material theoretically, has almost no emission, suitable for maintaining vacuum pressure inside packaging. And can be introduced very low thermal conductivity value done by micro fiber with vacuum condition.



# Technical Data

	White Wool	Fiber Felt	VIP Core
Loss on ignition (%)	< 3.5	< 2.5	< 0.5
Bio Soluble	Compatible	Compatible	Compatible
Thermal Conductivity @ 24°C (W/m.K)	0.031 - 0.046	0.022 - 0.046	0.002 (capable as VIP)
Facing material	Available upon request (i.e aluminum, glass tissue)	Available upon request (i.e aluminum, glass tissue)	N/A
Corrosive	No	No	No
Max service temperature (°C)	600	1000	N/A
Forming temperature (°C)	-	-	600-650
Melting point (°C)	> 1100	> 1100	> 1100
RoHS Directive	Comply	Comply	Comply
Low emission	Yes	Yes	Yes
Behavior in fire	Non combustible material, additive can evaporate at 200 °C	Non combustible material, additive can evaporate at 200 °C	No combustible material
Availability	Standard thickness : 15, 25, 38, 50 mm   Standard width : 1000, 1100, 1200mm   Standard length : 10 - 20m   Standard density : 16, 20, 24, 30, 40, 48 kg/m <sup>3</sup>	Please contact.	Standard width : 1000, 1100, 1200mm   Standard length : 10 - 20m   Standard specific weight : 900 - 2000 g/m <sup>2</sup>



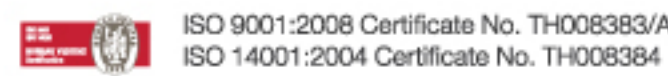
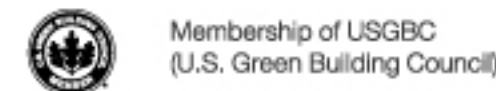


# SCG Insulation

## Environmental Friendly and Health Safety

SCG Insulation has passed the environmental system assessment and certificated ISO14000 and now is a member of U.S. Green Building Council which is a global organization placing importance on green building development. Moreover, our insulations have been qualified “SCG eco value”, “Green Label Thailand” and also “Green Label Australia”.

Our commitment to environmental awareness has been apparently shown by our eco-friendly product development concept “Green product from Green Process” which using 100% recycled glass as a major raw material. SCG insulation products can help saving energy consumption, creating a comfort of living and be a part of environment conservation.



*Certifications are available for selected products. For more information please contact the company.*



The product information presents only general technical knowledge based on printed date, the product technology is developed periodically. And this information is not legally guaranteed unless specific documented agree. Please always ask and verify for the latest information from SCG by the terms of trade and delivery.

## Our Products & Services



Thermal Insulation



Cylence Expert



Acoustic Product & Service



Translucent Roof Sheet

สีของผลิตภัณฑ์อาจแตกต่างจากสีของผลิตภัณฑ์จริง เนื่องจากระบบการพิมพ์ บริษัท ฯ ขอสงวนสิทธิ์ในการเปลี่ยนแปลงข้อมูลโดยไม่ต้องแจ้งให้ทราบล่วงหน้า  
The colors shown in this catalogue may vary from the actual product due to the printing process. Final color selection should be made from the sample.

We reserve the right to update or modify at any time without prior notice.

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