



Insultherm® Calcium Silicate Insulation



ISO 9001 : 2008 CERTIFIED



P.O. BOX: 326853 | UMM AL QUWAIN | UNITED ARAB EMIRATES

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Insultherm[®] Calcium Silicate Insulation

PRODUCT DESCRIPTION

Calcium Silicate Insulation made from tobermorite ($5\text{CaO} \cdot 6\text{SiO}_2 \cdot 5\text{H}_2\text{O}$) crystal reinforced with non asbestos fibres. It is a rigid material exhibiting high compressive strength, low shrinkage value and low thermal conductivity, high heat resistance at high service temperature. It is non-corrosive, non-toxic and chemically stable.

APPLICATION

It has diverse applications in process industries where rigid high temperature insulation is needed. It is used for both pipe and equipment insulation to boilers, steam pipe work, turbines, process plant, process pipe work for temperature up to 1000 Deg. C, kitchen exhaust and engine exhaust insulation etc...




AVAILABILITY

- Slabs of thickness 25 MM to 150 MM, 150/300 MM wide and 600 MM Long.
- Pipe Sections from ID 16 MM (1/4") onwards with Thickness from 20 MM onwards and 600 MM Long

TECHNICAL DATA SHEET

PHYSICAL PROPERTIES		TEST METHOD	UNIT	TYPE I	TYPE II
Density		ASTM D 1622	Kg/m ³	220	220
Maximum Service Temperature			°C	650	1000
Thermal Conductivity	25	ASTM C 518	W/m.K	0.052	0.058
	50			0.060	0.065
	93			0.065	0.070
	149			0.070	0.075
	200			0.078	0.085
	260			0.087	0.092
	300			0.095	0.098
	371			0.102	0.105
	400			0.106	0.109
	500			0.110	0.115
538	0.111	0.127			
Linear Heat Shrinkage		ASTM C 356	%	≤ 2.0	≤ 1.3
Flexural Strength		ASTM C 203	MPa	≥ 0.344	≥ 0.631
Compressive Strength		ASTM C 165	MPa	≥ 0.689	≥ 0.890
Weight Loss By Tumbling (First 10 Min.)		ASTM C 421	%	≤ 20	≤ 3.7
Weight Loss By Tumbling (Second 10 Min.)		ASTM C 421	%	≤ 40	≤ 5.6
Hot Surface Performance		ASTM C 411	MM	¼" (6) (No through-Cracking)	¼" (6) (No through-Cracking)
Surface Burning Characteristics	FSI	ASTM E 84		0	0
	SDI			0	0
Moisture Content		ASTM C 1616	%	≤ 20	≤ 5
Non-Combustibility Properties		ASTM E 136		Pass	Pass
Chloride Content		ASTM C 795		-	-


PSB Singapore

CERTIFICATE OF CONFORMITY

No. CLS2 15 09 93497 002

Certificate Holder: Insultherm Middle East L.L.C
P.O. BOX: 326853
Umm Al Quwain
UNITED ARAB EMIRATES

Product: Thermal Insulation Materials

Brand Name: Insultherm - UAE

Model(s): INSU-PF 50

Product Details: Phenolic foam
Bulk Density: 45kg/m³
Thickness: 40mm
(Rating: Class 0)

Standard(s): BS 476-6:1989/A1:2009
BS 476-7:1997

Country of Origin: United Arab Emirates


Test Report(s): 7191114692-MEC15/A1-YWA, 7191118960-MEC15-YWA

Issued on: 2015-09-29
Chang
Vice-President (Certification Department)
TUV SUD PSB

Valid until: 2018-09-28

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TUV®

TUV SUD PSB Pte Ltd - 1 Science Park Drive - Singapore 118271


PSB Singapore

CERTIFICATE OF CONFORMITY

No. CLS2 15 09 93497 001

Certificate Holder: Insultherm Middle East L.L.C
P.O. BOX: 326853
Umm Al Quwain
UNITED ARAB EMIRATES

Product: Thermal Insulation Materials

Brand Name: Insultherm - UAE

Model(s): INSU-PIR 50

Product Details: Polyisocyanurate Foam
Bulk density: 53kg/m³
Thickness: 40mm
(Rating: Class 1)

Standard(s): BS 476-7:1997

Country of Origin: United Arab Emirates

Test Report(s): 7191114692-MEC15/B1-YWA

Issued on: 2015-09-29
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Vice-President (Certification Department)
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Certificate of Assessment
Awarded to

INSULTHERM MIDDLE EAST LLC

at
P.O. BOX NO: 326853, UMM AL QUWAIN, UAE

Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS requirements for registration of the management system standard detailed below:

ISO 9001:2008


Quality Management Systems


Scope of work

MANUFACTURING AND SUPPLY OF HIGH QUALITY PHENOLIC FOAM (PF), POLYISOCYANURATE (PIR), POLYURETHANE (PUR), CELLULAR GLASS, CALCIUM SILICATE, PIPE, DUCT, SLAB, WALL & ROOF INSULATION, PRE-INSULATED PIPES AND FITTINGS FOR UNDERGROUND/DISTRICT COOLING PIPING, PHENOLIC FOAM/POLYISOCYANURATE PRE-INSULATED AIR DUCT PANELS AND INSULATION ACCESSORIES

Certificate No: AMU-1007
Originally Registered: 25 OCT 2015
Latest Issue: 25 OCT 2015
Valid up-to: 24 OCT 2016

Chang
Quality Registrar Systems


MANAGING OFFICE ADDRESS:
Quality Registrar Systems,
P.O. Box, 26428,
United Arab Emirates.


WORLD WIDE CERTIFICATION

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This is an accredited certificate authorized for issue by Accreditation Services for Certifying Bodies (Europe) Limited who have assessed QRS as a Certifying Body for compliance with ISO 17021:2011 Conformity Assessment - Requirements for bodies providing audit and certification of management systems.

