



softwell insulation

The ideal thermal insulation



"SOFTWELL"PFF (Polyethylene Fireproof Foam) Insulation 1



"SOFTWELL" PFF is a high-performance of heat-insulation and noise-absorbing materials developed after painstaking researches. The materials are formed from foamed high molecular polymers that have been chemically bridged, having tiny independent cells. Hence, the materials have very low coefficient of heat conductivity, low hygroscopic coefficient, and can withstand heat or cold, or chemicals. They are also hard to burnt and can effectively prevent cold surface freezing and heat radiation of thermal systems. Being the best product ever in today's insulation material market, they have great economic benefits.

Uses of PFF Insulation Materials:

- Refrigerating air-conditioning: Widely used for heat and cold insulation in refrigerating and cooling equipment like water and wind pipes of large central air conditioning systems, cooling plants, refrigeration storage houses, ice water main frames, cooking machines, cold wind pipes, cold water pipes etc.
- Civil engineering: For heat-insulation, noise-absorption, or water resistance of the roof, wall and ceiling decoration of plants, storage houses, apartments, plazas, and general residence buildings.
- Fire and water pipes: For areas to the north of the Yangzhi River, the temperature usually drops to below -25°C in winter. In order to protect the pipes from freezing, prevention measures shall be taken on open-air pipes to protect them from freezing.
- Agriculture, fishery and husbandry huts: For mushroom huts, fishing ponds, nursery gardens, green houses, and stock keeping sheds, this product can help to insulate heat, keep warmth and control luminosity.
- Athletic appliances: Floating beacons for fishing, life buoys, swimming buoys, diving kits, surfboard, and swimmerets etc.
- Indoor audio: Recording studios, music studios, testing studios, auditoriums, and karaoke places.
 Boats and vehicles: Heat-insulation for various buses, minibuses, trucks, taxis and boats, cold insulation of cooling cabins, and heat-insulation of various engines.

Fire proof Certificate



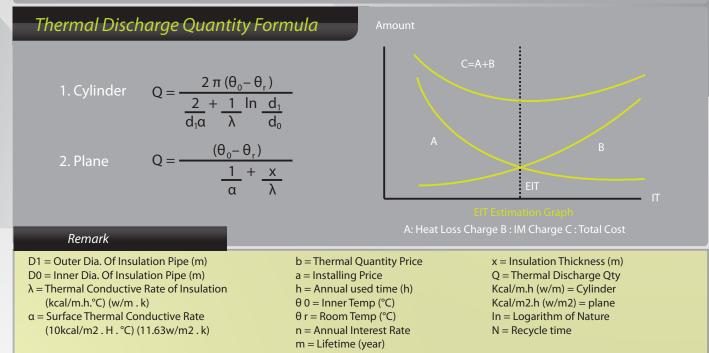
Lots of famous companies have applied our products to their projects, further make sure they have splendid properties.

			Certificate No. 03709/DBBPAE Date: February 21, 2011	BLCOMO Buccomo
Pro Pro Pro Pro	Baung C metFace: +62 21 86021176/800 E. 1, Cibiung Bekasi 17520, Inde Email jum-chi@succifiede			J. Anel Tel Oblurg No. 1, Oblurg Detail (TAD), Indenesia Phanefinas, +62 (2) 463211/1663231160 (Phanefinas, +62 (2) 463211/1663231160
				REPORT OF TESTING
3			CLIENT ADDRESS	ADI TEKNIK KARVA BAKTI, PT. JI.K.H. Moch Mansyur No. 15 F4
Burned length	Burn Rate (mm/sec)			Jakarta Pusat 10140
(mm) 22			NAME OF SAMPLE	Soft well insulation
22	4.31		TYPE OF MATERIAL/ MODEL	Polyethylene fireproof Feam (PFF)
24	4.53		QUANTITY	Length of Sample : 28 cm
23	4.42		TEST REQUIRED	Fire Proof Test
			STANDARD/ TEST METHOD	ASTM D-635
		10.00 mm	MANUFACTURER	ADI TEKNIK KARYA BAKTI, PT
			RECEIVED ON	February 11, 2011
			TESTED ON	February 16-17, 2011
(4mm) or less	where lested at a norm		RESULT	See attached sheet
ninute (64 mm)	ance with ASTM D 635. (min) or less where lested		The Attachment available is an integra	i part of this certificate.
	e in accordance with AST oet CC1 or CC2 colors.		The Collideringues must write air Grown Trans.	Stringer, op data lake en verst in te kannel den state and Stil Greek Stringer Filt Manhare en verst
		0778	855 2007 A	



1. Cylinder
$$\frac{d1}{2} \ln \frac{d1}{d0} + \frac{\lambda}{\alpha} = 10 \sqrt[-3]{\frac{a}{b}} \sqrt{\frac{b.h.\lambda(\theta_0 - \theta_r)}{aN}}$$

2. Plane $x + \frac{\lambda}{\alpha} = 10 \sqrt[-3]{\frac{a}{b}} \sqrt{\frac{b.h.\lambda(\theta_0 - \theta_r)}{aN}}$ $N = \frac{n(1+n)^m}{(1+n)^{m-1}}$





Product Overview

- Good Heat Preservation
- PFF can effectivey prevent the heat transfer to reach excellent thermal insulation effects
- Excellent Fireproof Class B1 of PFF completely reach ASTM D635 fireproof standard the oxygen index reach 32, hard to burnt
- Long Lifetime PFF's splendid aging resistance ensure its lifetime over 15 years
 Low Temperature Resistance PFF's application conditions temperature can reach -80°C for its stable physic performance
- Environmental Friendly PFF has no toxic elements and can be recycled and reused
- Sound Insulation & Damp Proof PFF can absorb and insulate sounds, preventing the hydrosphere filter and air circulation

Flame resistance flexibility and easy installation because has included jacketing makes Softwell a very economical insulation material for high standard buildings.







Insulation Profession

Performance	Parameter T	able	2:
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Performance Item & Unit	Test Standard	Parameter Class B1 Hard to burnt
Appearance Density (kg/m3)	ASTM D1667	30-40
Cellular Structure		Very fine, closed
Color		Grey
Stretch Strength (Kpa)	DIN 53577	150
Compression Strength (Kpa)	DIN 53577	4
Size Stability Rate (%)	GB/T8813-1988	4.2
Break Strength Rate (%)	DIN 53577	125
Thermal Conductive Index (W/m.k)	DIN 52613	0.0325
Hygroscopic Rate (%)	DIN 53434	2
Fireproof proformance	ASTM D 635	Hard to burnt
Oxygen Index (%)	GB/T2406-1993	32
Smoke Density Class	ASTM E662-97	40
Vertical Combustion Time (S)	GB/T8333-1987	10
Vertical Combustion Height (mm)	GB/T8333-1987	70
Applicable Temperature ($^{\circ}$ C)		-80~90

Design Parameter

Properties : Dense foam structure, waterproof, good bound, innocuity and environmental friendly, low smoking density and fireproof. Tu

Parameter : Specification for Sheet : 1.2 m x 2.4m width/sheet

Medium Temp °C	Medium Temp °C Regular Temp. 12°C ~ 15°C Low Temp. 5°C ~ 8°C															
Conditions Temp °C	30)°C	32	°C	34	°C	36	°C	30	°C	32	°C	34	°C	36	°C
Relative humidity %	85	90	85	90	85	90	85	90	85	90	85	90	85	90	85	90
Thickness mm	18	32	20	35	23	40	25	45	28	50	30	52	32	57	35	60

ıbe	Туре	Pipe Dia (mm)	Ecc 7°C-12°C Ice water tube	50°C-80°C Hot water tube	Thickness 0°C-5℃ Freeze water tube	(mm) 12°C-18°C Condensation water tube
?"	DN15	22	20	25	30	20
<i>1″</i>	DN20	28	25	30	35	20
	DN25	34	25	30	35	20
1/4″	DN32	43	25	30	35	20
/2″	DN40	48	25	30	35	20
	DN50	60	30	35	40	20
/2″	DN65	76	30	35	40	20
	DN80	89	40	45	50	25
	DN100	114	40	45	50	25
	DN125	140	50	55	60	
	DN150	165	50	55	60	
	DN200	219	50		60	
"	DN250	273	50		60	

Parameter :Specification for Pipe : 1,2 Meters length/piece