

PERLITEMP®



Green Insulation for *Green* Future

- *Water Repellent*
- *Recoverable*



- *Non - Corrosive*
- *Fire resistance*



Rigid Perlite Thermal Insulation



- *User Friendly*
- *Low Conductivity*



- *Withstand Foot traffic*
- *Asbestos free*
- *Easy to apply*



AMOL DICALITE LIMITED

(ISO 9001 CERTIFIED COMPANY)

A MEMBER OF THE LALBHAI GROUP

AMOL DICALITE LIMITED is a member of renowned THE LALBHAI GROUP. The company was established in the year 1979 to produce, for the first time in India, Perlite products. Through the pioneering efforts of the team the company is manufacturing and marketing Rigid Thermal Insulation products made out of Expanded Perlite under the brand name **PERLITEMP®**

Amol Dicalite Limited is known for innovations and bringing in products for energy conservation, enhancement of plant operations and cost effective solutions.

The company has an operational office in USA and a subsidiary company in Middle East and exporting materials to various parts of the world and providing services for Cryogenic Insulation all over the world.

PERLITE BLOCKS & PIPE COVERINGS

PERLITEMP® is high temperature insulation, precision molded into Pipe and Block shapes. Its principal ingredient- **Expanded Perlite** is one of the best of all the known naturally occurring Insulating Materials. Its characteristic structure consists of millions of vitrified air cells. Through a proprietary process, these particles are bonded together with special inorganic binders and reinforcing fibers, molded and baked. **PERLITEMP®** conforms to **ASTM C 610 standards**.



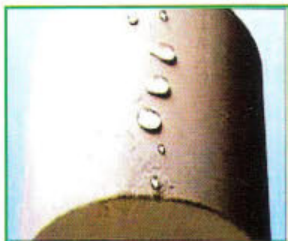
Low Conductivity

PERLITEMP® has low thermal conductivity. Its principle ingredient being Expanded Perlite is the real reason for low conductivity



Sustainability of Perlite

The main constituent of Perlite is Silica. **PERLITEMP®** can be safely used for Landfill without causing any environmental damages.



Low Water Absorption

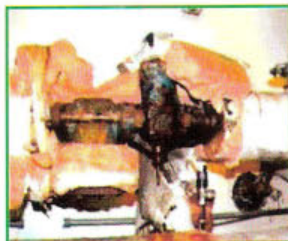
The extremely water-repellent nature of Perlite insulation means that they retain their low thermal conductivity factor even when there is water ingress into the system. Other

insulation materials are known to have high water absorption resulting in a loss of their insulation properties.



Fire Resistance

In direct contact with the flame, the outside surface of the insulation vitrifies and acts as additional protection for the valuable piping and equipment, thus preventing/delaying any burn through. Does not generate toxic or any other smoke.



Non-Corrosive

Not only is the Chloride content of **PERLITEMP®** very low but its high content of Sodium ions acts as Corrosion inhibitor and offer an excellent protection against stress corrosion of

austenitic steel. Also **PERLITEMP®** does not contain any Sulphur ions which cause corrosion.



Recoverable and Safe

In maintenance work, when the insulation needs to be dismantled, **PERLITEMP®** can be recovered and reused. It does not contain any amount of cancer-causing Asbestos. It does not cause skin rash during application.

Acid & Alkali Resistance

PERLITEMP® has a high resistance to concentrated acid such as Sulphuric, Hydrochloric and Nitric. It is entirely free from acid erosion.

High Resistance to Thermal Stress

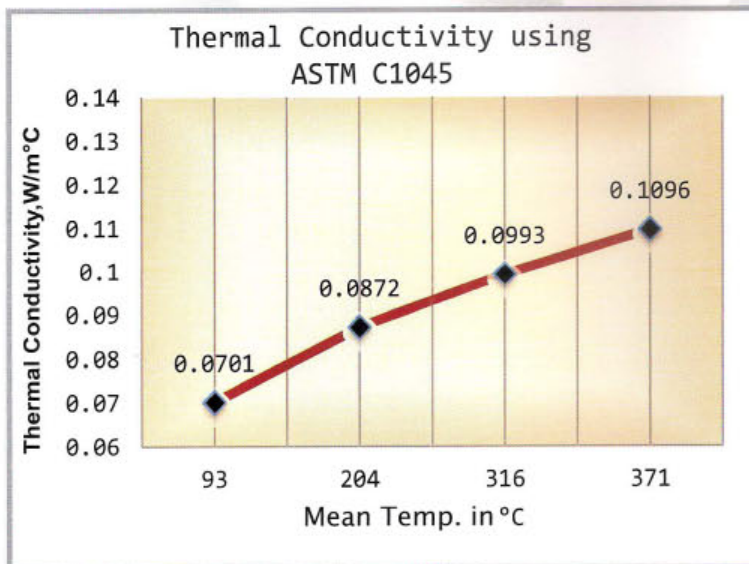
PERLITEMP® maintains its mechanical integrity in the most demanding conditions of use.

TECHNICAL SPECIFICATION

Property	Test Method	ASTM Standard	We Offer
Density	ASTM C302/303	160-224 KG/ Cu. M.	192-224 KG/ Cu. M.
Moisture Content	ASTM C610	Max 10% by Weight	*1.1% by Weight
Flexural Strength	ASTM C203	310 KN/ Sq. M (Minimum)	340 KN/Sq.M
Compressive Strength (5% deformation)	ASTM C165	483 KN/ Sq. M – 5% compression	540 KN/Sq.M
Linear Shrinkage (649°C for 24 hours)	ASTM C356	0.85% after 24 hours at 650° C	*0.70%
Surface Burning Characteristics	ASTM E 84	Flame Spread-0 Smoke Developed-5	Flame Spread-0 Smoke Developed-0
Stress corrosion cracking of austenitic Stainless Steel	ASTM C692	–	PASS
Water absorption after heat aging And 48 hours Water immersion	ASTM C610	50% by weight	*33.2% by weight
Hot Surface Performance	ASTM C411	–	PASS
Weigh loss by tumbling	ASTM C421	70%	*62.8%

*Typical Values

Available In



(1) Blocks

Standard Size	900 x 500 mm
Standard Thickness	25,30,38,50,64, 75,88,100mm

(2) Pipe Coverings (Half Sections)

Standard Size	From 15mm NB to 300mm NB
Standard Length	914mm
Standard Thickness	25,38,50,64,75,88,100mm

(3) Pipe Coverings (Quads)

Standard Size	300mm NB to 600mm NB
Standard Thickness	38,50,75,88,100mm
Standard Length	914mm

*For other thickness please check with our sales team.

AREAS OF APPLICATION

PERLITEMP® -Rigid Perlite Thermal Insulation is used in Petroleum Refineries, Petrochemicals and Chemical Plants, in generation of Power, in indoor and outdoor steam piping in general and in a great many more applications at temperature up to 650°C. PERLITEMP® can be easily cut and applied, minimizing installation time.

CLIENTS' FEEDBACK

Replaced Mineral Wool with Perlite Insulation as a part of conservation measures taken. Fuel savings is 122 MT per year, Financial Benefits is Rs.23 lakhs/year for the investment of Rs.45 lakhs.

KOCHI REFINERY, Annual Report 2006-07

After 6 Years in operation we find performance of Insulation is very good

N K Pandey, Sr. Manager-CPP & UT, Reliance Industries

Re-insulation of about 1300 m process steam line was done with better insulation material – PERLITEMP® is water repellant.

Surface temperature before re-insulation = 65°C.

Surface temperature after re-insulation = 40°C. We are getting surface temperature Ambient +10°C.

IOCL, Bongaigaon Refinery

OUR MAJOR CLIENTS

Reliance Industries Ltd	Hindustan Unilever Ltd	ONGC	Apollo Tyres	Sanofi - Aventis
Nirma Ltd	Chiripal Polyfilms Ltd	Jindal Polyfilms Ltd		Bayer
Torrent Pharma Ltd	IOCL Bongaigaon	HPCL Mumbai	BHEL	ITC Ltd

PERLITEMP® - Rigid Perlite Thermal Insulation can be regarded as a strong ecological thermal insulating product, as it has the following features:

- Is a natural volcanic glass with great availability in nature
- Has no impact on human health and it does not release toxic substances during use. Does not cause irritation.
- Is nonflammable and does not emit toxic gases when exposed to heat i.e. fire, etc
- Is generally considered an exceptional heat insulator.

PERLITEMP® also offers other advantages such as

- Better Thermal Efficiency and constant flow of steam etc. as no sagging
- Measurement of insulation work for payment is reduced as thickness of insulation is less.
- Cost benefit, while replacement of Aluminum cladding material as thin gauge of Al. cladding is specified.
- Life of Insulation is almost more than double.
- There may be reduction in wastage of DM Water, as condensate loss will be minimized.

PERLITEMP® = Energy Economy + Efficiency + Environment



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ISO 9001

BUREAU VERITAS
Certification

