

IPIRITE COVER & BOARD

Moulded Thermal Insulation

(Asbestos Free / Water Repellent)



IPIRITE COVER & BOARD Perlite Insulation Material

IPIRITE COVERS & BOARDS are product of **PT. IPI SUNIJAYA** in the form of pipes and boards made through the processes of pressure moulding of perlite powder materials bound together by high quality inorganic binders and reinforced by high resistant fibers. Perlite Powder is produced by expansion of perlite (glassyrock) under extremely high temperature in very light weight powdery material composed of countless airtight bubbles making it first class insulating materials.

Basic Chemical Composition

| SiO ² | Al ₂ O ₃ | Na ₂ O ₃ | K ₂ O | CaO |
|------------------|--------------------------------|--------------------------------|------------------|------|
| 74% | 15% | 5% | 4% | 1.2% |

Technical Specification

| STANDARD | DENSITY (Kg/m ³) | THERMAL CONDUCTIVITY (Kcal/mH°C) | FLEXURAL STRENGTH (Kg/cm ²) | WATER REPELLENCY (%) | SERVICE TEMPERATURE (°C) |
|---------------|---------------------------------|--|---|----------------------------|--------------------------------|
| JIS 9512 - 84 | 200 max | 0.046 + 0.0001 θ | 2.5 min | 98 min | 650 max |
| ASTM C610 | 225 max | 0.062 @ 149°C 0.074 @ 260°C | 2.5 min | - | - |

Advantages

Asbestos Free, No Corrosive, Light in weight, Acid Resistance, Non Toxic, High Water Repellent, Extremely Low Thermal Conductivity, Good for High and Low Temperature Use, Good Insulation from sub zero up to 650°C (1200°F)

High Water Repellent

No absorption of water, easily to maintenance and applying at jobsite, good to keep up original thermal conductivity for energy saving, no corrosion.



Water repellent in the inside



Water repellent on the surface

Application

Widely used for Hot & Cold Insulation in Geothermal Plants, Petrochemical Plants, Food Factories, Sugar Mills, Oil Refineries and Cold Storage.

Non Corrosive

IPILITE COVER & BOARD Perlite Insulation Product contain far less Cl^- content than other insulation product. They, therefore, hold superb quality not only in preventing the stress corrosion break by the insulation material of stainless pipes and machinery but also as protective material from corrosion for carbon steel pipes and machinery.

Comparative Corrosion Data

| Product | PH | Corrosion Promoting Component | Corrosion Controlling Component |
|------------------------|-------------|-------------------------------|-----------------------------------|
| | | Soluble Cl^- | Sodium Silicate ($Na^+SiO_3^-$) |
| IPILITE PERLITE | 10.8 | 120 ppm | 150500 ppm |
| SILICATE | 9.2 | 90 ppm | 2550 ppm |
| GLASSWOOL | 9.7 | 190 ppm | 6130 ppm |
| ROCKWOOL | 9.3 | 10 ppm | 400 ppm |

Moulded Pipe Cover (Standard Size)

| NORMAL PIPE SIZE | IN | 3/8 | 1/2 | 3/4 | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | UP TO | 30 | | |
|---------------------|--------------|-----|-----|-----|----|----|----|----|----|----|-----|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|----|
| | mm | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 90 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | UP TO | 750 | | |
| INTERNAL COVER DIA. | mm | 18 | 22 | 27 | 34 | 43 | 49 | 61 | 76 | 89 | 102 | 114 | 140 | 165 | 216 | 267 | 323 | 350 | 400 | 450 | 500 | 550 | 600 | UP TO | 750 | | |
| THICKNESS (mm) | 1" | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 1½" | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | UP TO | 40 | |
| | 2" | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | UP TO | 50 |
| | 2½" | X | X | X | X | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | UP TO | 65 |
| | 3" | X | X | X | X | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | UP TO | 75 |
| Length | 610 mm (24") | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Segments (PCS) | 2 | | | | | | | | | | | | 24 to 16 | | | | | | | | | | | | | | |

Moulded Board (Standard Size)

| THICKNESS | mm | 25 | 40 | 50 | 65 | 75 |
|-----------|----|--------------|----|----|----|----|
| WIDTH | mm | 150 mm (6") | | | | |
| LENGTH | mm | 610 mm (24") | | | | |

Produced by :



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