PRODUCT CATALOGUE

OUR PRODUCT RANGE

- Rigid Extruded Polystyrene (XPS) Thermal Insulation : Boards
- Expanded Polystyrene (EPS) Thermal Insulation : Board and Pipe Section
- Rockwool Insulation : Blankets, Slabs, Pipe Section, Loose Wool
- Fiberglass Acoustic Insulation : Blankets
- Closed Cell Elastrometric Nitrile Rubber Thermal Insulation : Sheets & Pipe Sections (with/without) Aluminum Facing)
- Polyurethane Foam (PUF) Thermal Insulation : Boards & Pipe Sections
- Aluminium HVAC Ducts : Insulated/UnInsulated/Rigid/SemiRigid/Flexible
- Self-Adhesive Insulation Tapes : Nitrile Rubber (with/without Aluminium Facing)
- Aluminium Perforated Sheets
- G.I. Wire & Wire Mesh
- All Kind of Insulation Material and Ancillary, Wire, Wire Netting, Ferrous & Non Ferrous Metal and Hardware Items

ARKC

Complete Insulation Solutions

ISO 9001:2015

Atma Ram Kishan Chand

Estd. Since 1969

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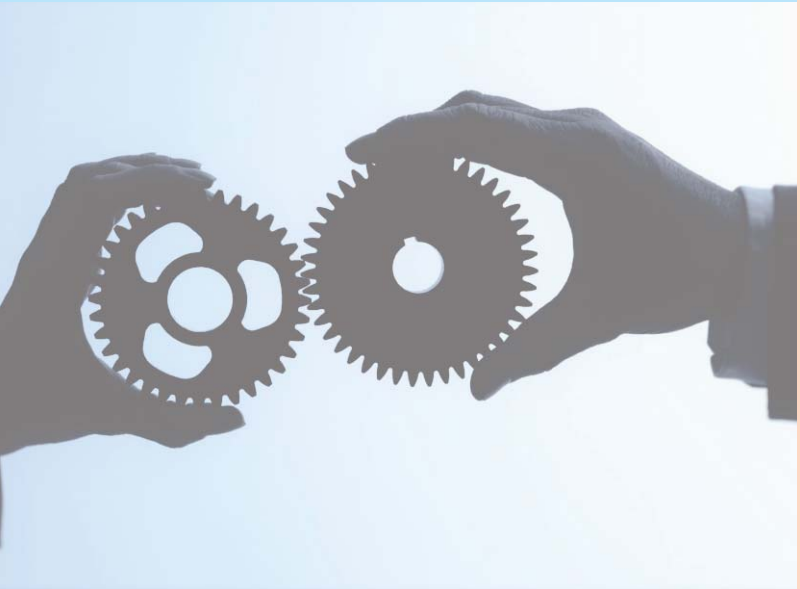
Prop. Mukesh Arora

"Who We are"

ATMA RAM KISHAN CHAND 1969 Standing proud on foundations steeped in traditional values. Fostering growth with an enduring passion tempered only by years of rich experience. Forging ahead with innovative engineering guided by the most modern outlook.

On our long journey from humble beginnings to an enviable brand image synonymous in the growing Indian constructions industry with Quality, value, Service and reliability, We at Atma Ram Kishan Chand have toiled for more than four decades to be rewarded with the honour of being widely-acclaimed by the industry today as the distinct leader in our chosen field i.e thermal and acoustic insulation, now proudly offering Complete Insulation Solutions to our valued clients.



"What We do"

Fulfilling our ever-standing commitment to providing true value, we indigenously and globally supply among an entire range of allied and ancillary products, both Closed Cell Flexible Elastrometric Nitrile Rubber Thermal Insulation, EPDM, XLPE, XPS for Thermal Insulation & Fiber Glass Wool & Rockwool for Thermal & Acoustic Insulation, EPS for Thermal Insulation as well as Rigid Expended Polystyrene (EPS) Thermal Insulation. Being the pioneers who first brought to India the required technology, our state-of-the-art Inventory facilities ensure that we always deliver the highest quality at the most economical price.

In continued pursuit of our passion for cutting-edge technology and only the highest standards of excellence, we import and distribute the premier products and latest innovations in the filed of Thermal & Acoustic Insulation, from the finest manufacturers in the world.

What we Aspire Towards:

We at Atma Ram Kishan Chand take great pride in providing you, our valued clients, with only the very best quality in materials along with the most dedicated service, and cherish your complete satisfaction as the ultimate reward of our earnest labour.

“What We can Provide”

Whatever be the quantum of your requirement, you can always relay on us to provide you with the best quality in the following products, and many more:

- Rigid Extruded Polystyrene (XPS) Thermal Insulation : Boards
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- All Kind of Insulation Material And Ancillary, Wire, Wire Netting, Ferrous& Non Ferrous Metal and Hardware Items

“Who our Friends are”

The confidence and trust placed in us over the years for the exceptional value technical strengths we are over committed to deliver merits a mention of some of our many satisfied clients which include, but are certainly not limited to, highly esteemed companies like:

All Oil & Gas, Power Sector, Cement Sector, PEB Manufacturers, All Thermal Insulation Contractors & Builders.

About ARKC

ATMA RAM KISHAN CHAND (ARKC) is an ISO 9001:2015 certified company. We are in business for the past 48 years, nurtured by three(3) generation with all their efforts and following the principle of 3 C's i.e, is Credibility, Commitment and customer Satisfaction. Over the past 48 years it has grown by virtue of business. We have made a very strong base in North India for all kind of insulation material and other ancillary products by showing there diligence towards innovations and delivering the right product at the right place and acting as bridge between global manufacturer and end users.

ARKC is the proud Indian Channel partners for global giants like

1. Owens Corning (Thermal Insulation material –North India)
2. Aflex
3. Polybond Insulation

ARKC is based at Delhi, India. The company holds an envious position in the market owing to the determined leadership and prudent management of our venerable Proprioter, Mr.Mukesh Arora. His persistent hard work and enthusiasm has helped us to be ranked among the top most SME firms of Delhi.

ARKC is catering insulation solutions to major infrastructure industries, housing projects, process industries, cold storages, embassies and major HVAC projects.

ARKC take great pride in providing you , our valued clients, with only the very best quality in materials along with the most dedicated servsiasm of our business and cherish only your complete satisfaction as the ultimate reward of our earnest labour. With the dynamic support and enthusiasm of our business Head Mr. Amit Kapoor, We are targeting at least 20% p.a growth in sales along with increasing infrastructure, employees and awareness about insulation and benefits.

The Complete
Insulation Solutions

We are going to Celebrate our
50th Anniversary Soon...

A. Nitrile Sheet and Tubing insulation

Nitrile sheet or tube is a flexible elastomeric thermal insulation. Sheets are available in roll form.The cell structure with in the sheet or tube effectively retards the flow of moisture vapour and is considered a low transmittance vapour retarder. Sheet and tubes are black in colour, the standard thickness of both tube and sheets are 3,6,9,13,19,25, and 32 mm, the sheets are 1 meter in width and the tubes are 6 feet(1.83m) in length. Nitrile tubes are used to insulate pipes. Pipes are of different diameters hence nitrile tubing is available in diameters ranging from 6 mm(1/4 inch to 120 mm (4 Inch). Nitrile sheet and tubing has a temperature range from -40 deg cent. to 115 deg cent.

Benefits

The advantages of Nitrile sheet and tubing insulation are that it has no fire spread, it minimizes vapour penetration resulting in a long term performance, the quality of low thermal conductivity results in energy saving, high resistance to heat transfer, self extinguishing and non dripping.

Applications

Nitrile sheet and tubing can be installed in commercial, residential and industrial insulation projects.

SPECIFICATIONS

Density	45 to 60kg/m^3 + 10%	**Resistance to Oil & Grease**	Good
Temperature Range	-200 to + 115°C	**Odour**	Negligible

Thermal Conductivity W/m °K

EN 12667 (DIN 52612) EN ISO 8497 (DIN 52613)	0.030@-40°C 0.032@-20°C 0.035@0°C 0.037@20°C	**Noise Reduction upto 35dB (A)** upto 35dB (A) **Noise Absorption to EN ISO 11654** Class D

Water Absorption After 28 days-max 0.9%	max 0.9%	After 28 days	**Reaction to Fire**
Corrosion Risk	pH7 (neutral)	BS 476 Part 7	Class1
		BS 476 Part 6	Class 0
		Euro Class, EN 13501	Class B

Ecological Data	pH7 (neutral) No asbestos No HCFC-CFC No formaldehyde-Cd-Hg etc.	**Resistance to Building Material**	Very Good
Closed Cell	>90%	**Dimensions**	Sheet in rolls 1 mtr. Wide Tubes 1.83 mtr long. Custom Available on request.

B. EPDM (Ethylene propylene Diene Monomer)

EPDM is a highly flexible, high temperature insulation material which is applicable in the fields of sanitary, solar and heating. It is black in colour and best suited for solar thermal and hot water insulation applications. EPDM is available in sheet and tube form. The standard thickness of sheets and tubes are 9mm, 13mm, 19mm, 25mm, 32mm, 38mm and 50mm. The sheets are 1 meter in width and the length of the tubes is 1.83 meter (6 Ft.) per piece. The tubes are available from an internal diameter of 6mm (1/4 inches) to 140mm (5-1/2 inches).

Benefits :

- All weather resistant
- UV Resistant
- Ideal for vrv and solar application
- Eco friendly
- Temp range from – 200C to 150C
- Quick and easy to install
- Does not corrode copper tubing
- Free from cracking
- Longer life

Applications

Duct insulation, Chilled water piping, Roof insulation, Terminal insulation, Cold Storage applications, Clean room applications, Solar Plumbing, Raised floor insulation, Refrigerant piping.

Specifications

Physical Properties						EPDM	Test Method
Cell structure						Closed cell	
Density lbs/ft^3(g/cm^3)						40-80 kg./m^3	ASTMD 1667
Thermal conductivity	Mean	-4^{0}F	32^{0}F	75^{0}F	90^{0}F	104^{0}F	ASTMC177
BTU. In/ft.^{3} hr.^{0}F (W/mk)	Temp.	(-20^{0}C)	(0^{0}C)	(24^{0}C)	(32^{0}C)	(40^{0}C)	JISA1412
	K-Value	0.22	0.23	0.25	0.26	0.27	DIN52613
	0.032	0.034	0.037	0.038		0.039	
Service temperature	-70^{0}F to 257^{0}F					EPDM becomes hard at	
	-57^{0}C-+125^{0}C,					-57^{0}C but can be used even at-200^{0}C	
Water vapor permeability perm-in (g/Pa.s.m.)							
Moisture Resistance factor			μ			>7000	En 12086
Water Absorption (weight %)						5	STMD10560
Ozone Resistance						No Crack	ASTM D1149
Heat stability % Shrinkage)							
200^{0}F (93^{0}C) 7 days						6	ASTM C 534
Flammability & Smoke, Density						Class V	0UL-94
						25/50	STME 84
						Self-Extinguishing	ASTM D 635
						Class 5.3	EMPA (Switzerland)
						Non-Flammable	IS K 6911
						Pass	IMO
UV. Weather Resistance						Good	–
Corrosion of copper, stainless						Non Corrosive	DIN 1988
Nitrosamine Contents						Non detected	U.S. FDA
Sound reduction (dL)						27dB (20mm)	DIN 52218
Flexibility						Excellent	–

C. XPS (Extruded Polystyrene Insulation)

Polystyrene foam insulation board, also known as XPS board, mainly used in building facades, cold storage, air conditioning, vehicles, ships of the insulation system, more extensive use, then the XPS Board insulation board has what advantages and disadvantages?

Products Details

Property	Unit	Test Standard	Foamular
Compressive Strength	kPa	ASTM 1621	250 to 700
Thermal Conductivity day 1 @ 10°C	W/mk	ASTM C518	0.020
Thermal Conductivity day 180 @ 10°C	W/mk	ASTM C518	0.027
Thermal Conductivity day 1@ 24°C	W/mk	ASTM C518	0.021
Thermal Conductivity day 180@ 24°C	W/mk	ASTM C518	0.029 0.0289 w/w k
Water Absorption Rate	%(v/v)	ASTM D2842	≤ 1 %
Flame Spread & Smoke Developed[2]		ASTM E 84	Class A
Surface Burning Characteristics of Building Materials		UL 723	Class A
NFPA Life Safety Code		NFPA 101	Class A
Oxygen Index[3]	%	ASTM D 2863	24.1 - 28.1
Cell Size	mm	ASTM D 3576	0.4 Maximum
Edge Profile			Shiplap / Square
Length	mm		2400
Width	mm		600 / 1200

The advantage of Polystyrene foam insulation board :

1. Low thermal conductivity. Because of the air hole group structure. Prevent the spread of air, the heat conduction coefficient is under 0.039.
2. Because 98% of foam insulation board space is filled with air, have sufficient capacity to buffer the impact of the outside world and by changing the shape, good anti impact ability;
3. low water absorption. Studies have shown that humidity will affect the thermal and mechanical properties, low water absorption materials help to maintain these properties;
4. Recyclable. The recovery degree is the highest in plastics;
5. The production process does not apply Freon;
6. The full life cycle energy consumption of plastics in the lowest.

1. 'R' value means resistance to heat flow, the higher the value the greater the Insulation. This Insulation must be properly installed to obtain the desired R-value.
   Follow manufacturer's instructions carefully.
2. These laboratory test are not intended to describe the hazards presented by this material under actual fire conditions.
3. Meets requirements of ASTM C578
4. CFC/HCFC Free

D. Fiber Glasswool

Fiber glasswool is a quality glass wool which is made from pure silica sand does not support combustion even in direct, prolonged contact with flames. It emits no toxic fumes or smoke, the two biggest hazards to health and life in the event of a fire, with BIOSOLUBLE FIBRES thus making its application and use safer. Glasswool is a complete fire safe product.

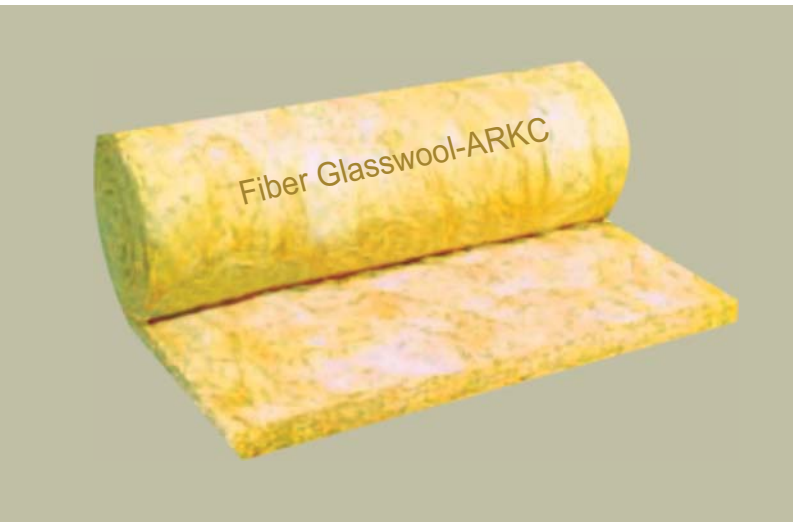
SPECIFICATIONS

(available with aluminium foil (FSK) and without aluminium foil (UNF)

Density	Thickness
12 kg / m^3	25, 50, 75mm
16 kg / m^3	25, 50, 75mm
24 kg / m^3	25, 50, 75mm
32 kg / m^3	25, 50, 75mm
48 kg / m^3	25, 50, 75mm

Benefits :

- Relatively easy to install if ceiling space is open.
- Both Heating and Cooling properties
- Reduces noise – Acoustic properties.
- Resistant to Fire.
- Resistant to Insects.
- Does not Shrink.



E. Expanded Polystyrene

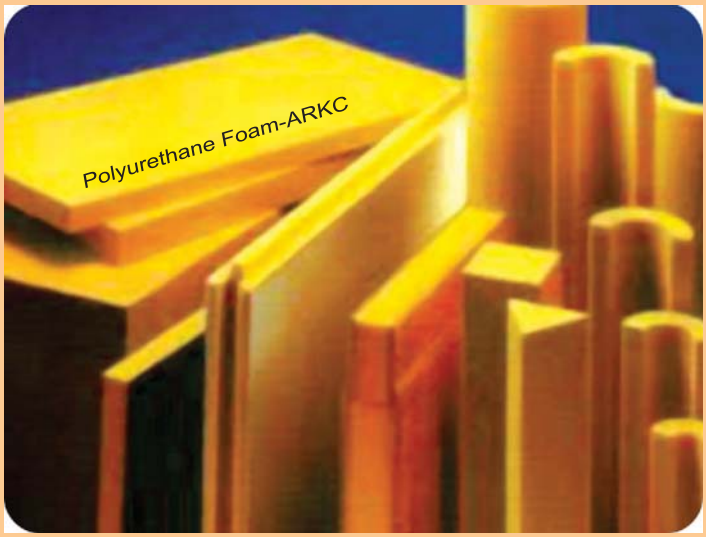
Expanded polystyrene (EPS) is a rigid and tough, closed-cell foam. It is usually white and made of pre-expanded polystyrene beads. Familiar uses include molded sheets for building insulation. Thermal resistivity is usually about 285 m K/W (or R-4 per inch). Some EPS boards have a flame spread of less than 25 and a smoke-developed index of less than 450m which means they can be used without a fire barrier (but require a 15-minute thermal barrier). The density range is about 8-24 kg. / m^3 and is available in thickness starting from 10mm to desired thickness. The standard size of EPS sheet is 1 meter x ½ meter.

EPS is also available in pipe section form, the thickness of pipe sections that are available are (25, 40,50,65,75,100 and 125mm). The internal diameter of EPS pipe section are available in (15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300 and 350mm).

F. Polyurethane Foam

Foam emerged as a material extremely effective thermal insulation qualities and high strength to weight ratio at low temperatures. These inherent physical characteristic enable it to perform extremely well with other alternatives products Rigid insulation, minimum 95% closed cells, remains durable for years, no thermal bridges, high mechanical strength.

Polyurethane foam is also available in pipe section form, the thickness of pipe sections that are available are (25,40,50,65,75,100 and 125mm). The internal diameter of PU form pipe sections are available in (15,20,25,32,40,50,65,80, 100,125,150,200,250,300 and 350mm).



G. Rockwool Insulation

Rockwool insulation is used as thermal insulation in walls and attics and as acoustical insulation for residential walls and ceilings. It offers a wide array of benefits for homeowners looking for environmentally responsible thermal and acoustical insulation solutions.

Advantage of Rockwool insulation :

1. Reduce heat losses and increases fuel saving.
2. Controls temperature drop.
3. Prevents condensation of ducts & pipes.
4. Prevents thermal shocks.
5. Corrosion resistant
6. Resistant to deformation
7. Moisture resistance.

Technical Specifications

Size – 1000mm x 500mm

Thickness -25mm, 50mm, 75mm, 100mm and 150mm

Density – 48,64,96 Kg./ cu.m.

Service temperature – 50 Degree Celsius to +750 degree celcius

G.1. LRB (Lightly Resin Bonded Mattresses)

Lightly resin bonded mattresses (LRB) are made of fine fibres spun from selected rocks melted at high temperature and bonded with a thermosetting resin. They are Machine laid fiber lay pattern and are backed to form mattresses or predetermined density and thickness.

Specifications

Standard Dimensions	1.640 x 1.220M
Thickness – MM	25,40,50,60,65,75,100
Density (Kg/M^3)	100,120,128,144,150
Wire Netting	½”x22G, ¾”x24G, 1”x20G
Specification	As per ISL : 8183, ASTM C 592
Test Method	As per IS : 3144
Temperature Range	-50 to +750^{0}C

Benefits :

☐ Incombustible ☐ Chemically inert ☐ Moisture Resistant ☐ Neither Cause nor Accelerate Corrosion

☐ Durable ☐ Better Insulation Properties ☐ Good Acoustic Properties ☐ Fire Retardant

G.2. Resin bond slabs

Resin bonded slabs are made of fine fibres spun from selected rocks melted at high temperature and bonded with a thermosetting resign.

Specifications

Standard Dimension (mm)	1000x500
Thickness (mm)	25 to 100mm
Density (kg. / m^3)	40 Kg. / m^3 to 150 kg./ m^3
Specification	As per IS 8183 : 93
Test Method	ASTM C 612 & BS 3958-5 As per IS : 3144
Temperature Range	-50^{0}C to 750^{0}C

H. FLEXIBLE DUCTS

Description

Our ducts are non-combustible, flexible metal duct, manufactured of corrugated aluminium with watertight lock seams. 10' lengths comes in compressed lengths with labor saving, universal male / female fittings.

Code Compliance

Recommended operating pressure :

12" w.g. pos. / neg.	6" – 10" dia
8" w.g. pos. / neg.	12" – 18" dia
Maximum Velocity	5000 FMP
Operating Temperature Range	73 deg. C to 221 deg. C.
Standard Length	10 Ft
Standard Diameter	4" – 18"

Max. Operating Temperature :

-29 Deg. To 60 Deg. C (@ max Pressure)

-29 Deg. To 60 Deg. C (@ 2" pos w.g. Pressure)

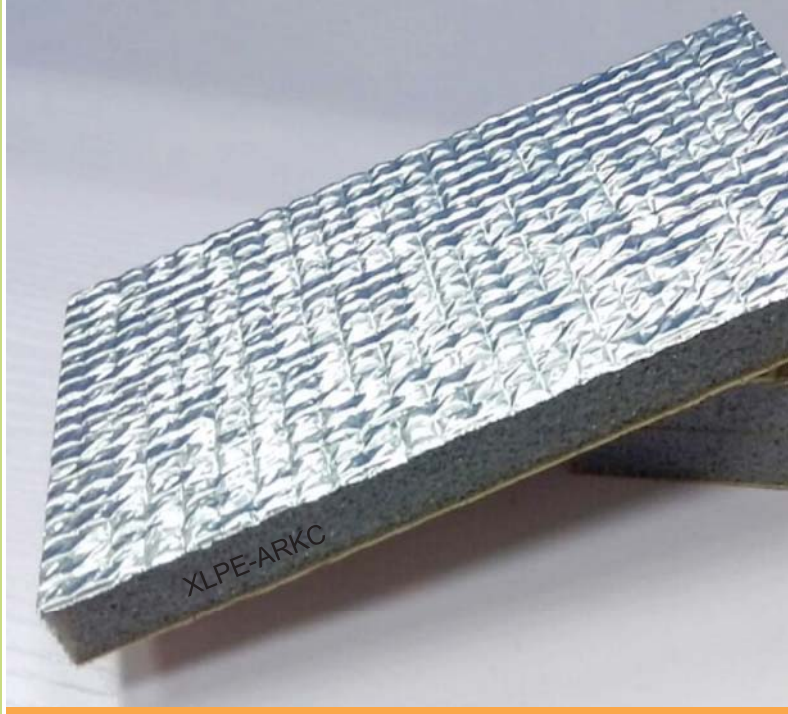
Standard Length : 25 Ft.

Standard Diameters : 4"

Standard Diameters : 4" – 20"

I. XLPE
(X Linked Polyethylene)

XLPE is a cross linked closed cell polyethylene insulation available in a roll form, designed and developed to save time and reduce cost. XLPE sheets are light grey in colour and are available in a standard width of 1.5 mtr. and thickness of 6mm, 9mm, 13mm, 19mm and 25mm. XLPE sheets are also available with an aluminium foil face and self adhesive quality, the working temperature range is --40 degree C to +115 degree C. The density of XLPE is 25 to 35 kg. / m^3 and is self extinguishing, hence proves to be a safe and effective insulation solution.



Applications

XLPE can be used for underdeck / overdeck wall insulation, thermal insulation of ducts, cold storages and evaporative cooling plants etc.

Benefits

- Very efficient insulation
- Safety because of self extinguishing property
- Can be glued to each or to metals.
- Consistent thermal conductivity

TECHNICAL DETAILS FOR (XLPE)- FIRE RETARDENT INSULATION GRADE

TECHNICAL DETAILS	(XLPE)- FIRE RETARDENT INSULATION GRADE	
Material Discription	Fire Retardent Chemically X-Linked Polyethylene-XLPE	
Density Cell structure Colour	33± 2 kg/m 3 Closed cells Light grey	
Temperature Range	-40°C to +115°C	
Ozone resistance UV & Weather resistance Chemical resistance	Good Excellent Excellent	
Thermal Conductivity (k-value) (Test by C B R I-ROORKEE)	K cal/hr moC	Wm/K
1. at 0°C 2. at 23°C 3. at 46°C	0.027 0.029 0.032	0.031 0.033 0.037
Horizontal burning as per BS-4735 (Test by C B R I-ROORKEE) Mean Burning Rate	0.72 mm/sec	
Oxygen Index as per ASTM D 2863 (Test by C B R I-ROORKEE)	27.7	
Thermal Stability (UP TO 105°C)	No visible signs of cracks and distortion	

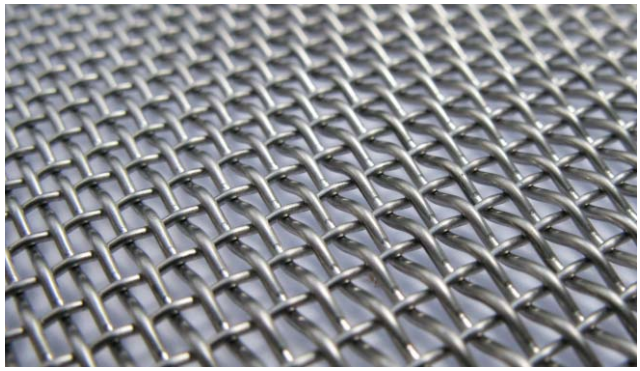
J. STAINLESS STEEL WIRE MESH

Material for Stainless Steel Wire Mesh and Woven Wire Cloth : 302, 304, 304L, 316, 316L

Weaving patterns involved: plain weave and twill weave.

Property of Stainless Steel Woven Wire Mesh and Wire Cloth: Acid resisting, alkali resisting, heat resisting, durable.

Stainless Steel Woven Wire Mesh and Wire Cloth Application: Shifting and filtering in acid and alkali conditions. Slurry net in petroleum, sifting and screening mesh in chemical and chemical fiber industry, acid washing mesh in electric plating industry.



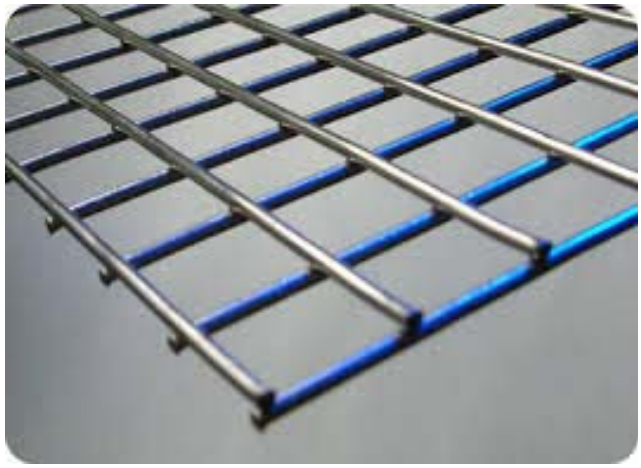
Roll Width: 36", 40", 48", 60"

Roll Length: 25Ft, 50Ft and 100Ft

Stainless Steel Wire Mesh Standard Grade made from plain weave or twill weave, materials are available in ANSI304 ANSI316 also other stainless steel 300 series and 400 series.

K. WELDED MESH

Square & Rectangular Welds at regular intervals in Mild teel, Angular Welded GridsAre also fabricated.



THICKNESS UPTO 6MM
Width : Upto 2.5 Mtrs.

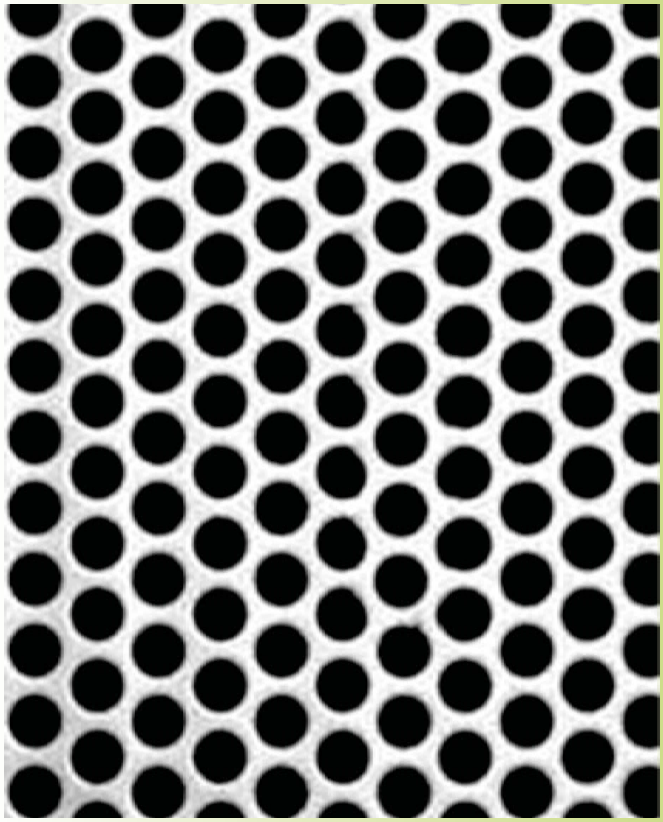
L. PERFORATED SHEETS

Sieves are alternate to Wiremesh due to longer Durability. Request for Any pitch & Un – Perforated Area.

SIZE UPTO 5FEET WIDTH, AND THICNESS UPTO 12M and in so many shapes.

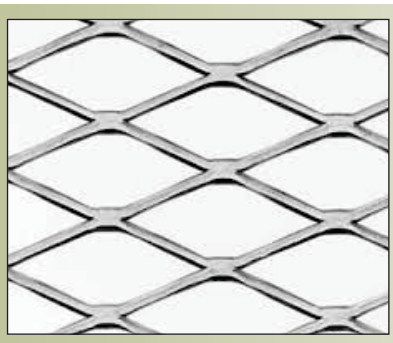
Perforated Sheets are made out of Stainless Steel , Mild Steel (MS), Carbon Steel, Brass Alumunium sheets in sizes of 8' x 4', 8' x 3' or sizes as per client's requirements – having Round, Rectangular, Hexagonal and square Holes that are generally used in Rice mills, paper Mills Sugar Mills, Food Processing, Agriculture & Engineering sector with many other uses. We have a wide range of ready stock in Perforated Sheets in Stainless Steel, Mild Steel, Galvanized Iron, Alumunium, Brass etc. We can also provide all types of Perforated Sheets in all metals as per your specifications.

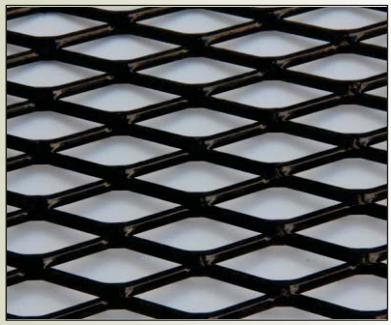
AVAILABLE IN STANDARD SHEET SIZE OF 3' X 8' , 4' X 8' 3FT, 1MTR, WIDTH 4' X 8' AND AS PER CUSTOMERS REQUIREMENTS



M. Expanded Metal

Diamond Shaped Apperture in Sheet Metal of M.S. Stainless Steel, G.I. Aluminium, Copper, Titanium from 1/16” to 3” Mesh Gratings are also Fabricated.





WIDTH UPTO 2.5MTRS AND THICKNESS UPTO 6MM

N. CHICKEN MESH

Available Sizes 1/2",3/4",1",1 1/2"

And 3 Feet Width Upto 6 Feet

In The Thickness From 0.3mm To 1.2mm

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Prop. Mukesh Arora

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