



PERFECT PACKINGS & SEALS

PRODUCT CATALOGUE

Largest Dealers for
SPITMAAN[®]
CHAMPION JOINTINGS PVT. LTD

www.perfectpackings.in





PERFECT PACKINGS & SEALS

INTRODUCTION

www.perfectpackings.in

Largest Dealers for
SPITMAAN[®]
CHAMPION JOINTINGS PVT. LTD

Perfect Packings and Seals, an ISO 9001:2015 Company, specializes in producing high-performance industrial gaskets and aims to be a leading provider in the industry. Located in Chennai, India, we serve clients nationwide and internationally, catering to various sectors such as Petrochemicals, Chemicals, Fertilizers, Power, Paper, OEMs, Sugar Mills, Atomic Energy, and Pipeline Projects.Etc.

Our manufacturing facilities adheres to required quality control, utilizing technology and reliable suppliers. We prioritize client requirements and satisfaction, offering guidance on product selection and maintaining an efficient warehouse for timely deliveries.

Specializing in a range of gaskets, including Spiral Wound, Ring Joint, Sealing Ring, Lens, Rubber, PTFE Envelope, and Soft Cut, we can customize designs to meet both National and International Standards.We are the largest **Spitmaan gaskets** dealers in Tamil Nadu, ensuring unparalleled access to quality products and dedicated service for our customers. As a rapidly growing company, we seek to expand into new markets, emphasizing quality and client satisfaction. We invite you to register us in your vendors list for Gasket supplies, assuring the best and prompt execution of all inquiries and purchase orders.



PERFECT PACKINGS & SEALS

METALLIC GASKETS



SPIRAL WOUND
GASKETS



JACKET GASKETS



CORRUGATED
METALLIC GASKET
(WITH GRAPHITE LAYER)



RING JOINT
GASKETS



PERFECT PACKINGS & SEALS

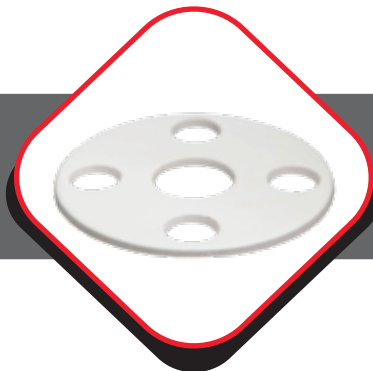
NON METALLIC PRE CUT GASKETS



**NON ASBESTOS / ASBESTOS
COMPRESSED FIBRE
PRE CUT GASKETS**



**PTFE ENVELOPE
SLIT PROFILED &
GL REACTOR GASKTES**



**PTFE MACHINE CUT
SOLID / EXPANDED**



**RUBBER GASKETS
& MOULDED PROFILES**

COMPRESSED ASBESTOS FIBRE JOINTING SHEETS



PERFECT PACKINGS & SEALS

"Spitmaan" jointing sheet technology is based on a tradition which stretches back over few decades. With close co-operation with our customers, by constant development of composition of materials and by use of high quality raw materials, the company has produced reliable gasketing products, which always correspond to the latest state of technology.

"Spitmaan" products are developed with the strong belief on the proven fact that the most qualitative gasket is cheaper than the work necessary for changing an improper gasket.

Also available with antistick Polymer / Graphite surface coating.

Tests: Tests are conducted in our laboratory equipped with latest testing equipments according to international test specifications & ISI.

Some of the important tests carried out are for Compressibility, Recovery, Stress relaxation, Flexibility & Resistance to fluid media, besides the routine tests for tensile strength, ignition loss, density, etc.

"Spitmaan" Metallic jointing sheets: With the operating temperature and pressure high and when the effective gasket area is small, jointing sheets with wire gauze reinforcement are suggested to be used.

SPITMAAN ASBESTOS JOINTING SHEET SIZES

Nominal sheet Thickness Approx. (mm) 0.4/ 0.5, 0.75/0.8, 1.0, 1.5, 2.0, 3.0, & above upto 6.0 mm / Sheet size Approx. 1525 mm x 1650 to 5000 mm (variation + 5%)

MAJOR TECHNICAL FEATURES

STYLE	TENSILE STRENGTH N / mm ²	STRESS RESISTANCE N / mm ²	COMPRESSIBILITY %	RECOVERY %	IGNITION LOSS %
20	9.5	20	7.5-12	≥42.5	≤20
20M	12.0	20	7-12	≥45	≤20
51	18.0	23	7-12	≥45	≤22
51M	20.0	23	7-12	≥45	≤20
39	18.0	23	7-12	≥45	≤22
54Super	28.0	28	6.5-11.5	≥50	≤25
54SuperM	30.0	30	7-10.5	≥50	≤22
59Oil	28.0	30	7-10.5	≥50	≤25
50Acid	27.0	25	7-12	≥45	≤25

NON ASBESTOS JOINTING SHEETS

STYLES																		
	Non Metallic	Metallic	Non Metallic	Metallic	Non Metallic	Metallic	Non Metallic	Metallic	Non Metallic	Metallic	Non Metallic	Metallic	Non Metallic	Metallic	Non Metallic	Metallic	Non Metallic	Metallic
Compliance	BS 7531 Grade Y		BS 7531 Grade Y		BS 7531 Grade Y		BS 7531 Grade Y		BS 7531 Grade X		BS 7531 Grade X		BS 7531 Grade X		BS 7531 Grade X		BS 7531 Grade X	
Line Callout Number	ASTM10471399A989E99M471		ASTM10471399A989E2M572		ASTM10471399A989E21M573		ASTM10471399A989E2M574		ASTM10471399A989E99M575		ASTM10471391A989E21M677		ASTM10471399A989E19M578		ASTM10471391A989E11M579			
Composition	Ecofriendly Cellulose Fibres, Mineral Fillers And NBR Elastomer. Optional Steel Wire Mesh Insert On Request		Aramid Fibres, Mineral Fillers, Inorganic Fillers And NBR Elastomers. Optional Steel Wire Mesh Insert On Request		Aramid Fibre, Mineral Fibres, Inorganic Fillers And SBR Elastomer. Optional Steel Wire Mesh Insert On Request.		Aramid Fibre, Mineral Fibres, Inorganic Fillers And HNBR Elastomer. Optional Steel Wire Mesh Insert On Request.		Aramid Fibre, Glass Fibre, Mineral Fibre, Inorganic Fillers And HNBR Elastomer. Optional Steel Wire Mesh Insert On Request.		Aramid Fibre, Mineral Fibres, Carbon Fibre, Inorganic Fillers And HNBR Elastomer. Optional Steel Wire Mesh Insert On Request.		Aramid Fibre, Mineral Fibres, Inorganic Fillers And Special Alkali Resistant Elastomers.		Aramid Fibres, Mineral Fibres, Carbon Fibres, Inorganic Fillers And Reinforced With Expanded Graphite. Optional Steel Wire Mesh Insert On Request.			
Colour	Red & Green		Green		Orange		Brown		Yellow		Purple		Black		Blue		Black	
Recommended Applications/ Industries	General Purpose Gasketing Material. Suitable For Water Oil And Mild Acids And Alkalies. Low Service Conditions.		General Purpose Gasketing Material With Good Thermal And Chemical Properties. Suitable For Steam, Food, Water, Gas And Heating Systems, Dilute Acids And Alkalies. Medium Service Conditions.		General Purpose Gasketing Material Suitable for Petrochemicals, Automobiles, Shipbuilding, Refrigeration and Cooling Equipments, Glycols And Aqueous Solutions. Medium Service Conditions.		General Purpose Gasketing Material With Controlled Swell Properties In Oil. Suitable for Automotive And Chemical Industries E.g. Ice Engines, Hydraulic Engines, Reiterating Oils, Hydrocarbons And Various Dilute Chemicals. Medium Service Conditions.		Excellent Thermal, Chemical And Mechanical Property Gasketing Material Suitable for Petrochemicals, Steam, Gas, Power Generating Equipments, Heating Systems Shipbuilding, Dilute Acids And Alkalies. High Service Conditions.		Premium Grade Gasketing Material Suitable For Use In Super Heated Steam, Automobiles, Shipbuilding, Power Plant Equipments, Fertilizers And Petrochemicals, Dilute Acids And Alkalies. High Service Conditions.		Premium Grade Gasketing Material Suitable For Aggressive Organic/ Inorganic Acids And Alkalies In Chemical And Fertilizer Industries. High Service Conditions.		Premium Grade Gasketing Material Suitable For Aggressive Organic/ Inorganic Acids And Alkalies In Chemical And Fertilizer Industries. High Service Conditions.		Premium Grade Gasketing Material with Excellent Thermal And Mechanical Properties. Suitable For Use In Oil, Solvents, Gases, IC Engines In Extreme Pressure And Temperature Conditions In Shipbuilding, Power Plants, Automobiles, Chemical And Fertilizer Industries. High Service Conditions.	

TECHNICAL DATA - TYPICAL VALUES FOR A THICKNESS OF 1.60 mm

Density	DIN 28096-2	g/cc	1.85	1.90	1.80	1.90	1.90	1.95	1.90	1.95	1.80	1.90	1.85	1.95	1.75	1.85	1.80	1.70	1.80
Tensile Strength	ASTM F 152	Mpa	> 7	> 8.5	> 9	> 10	> 10	> 12	> 8	> 10	> 12	> 14	> 12	> 14	> 12	> 14	> 10	> 11	> 11
Compressibility	ASTM F 361	%	> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 12	> 12	> 10	> 10	> 10	> 10	> 10
Recovery	ASTM F 361	%	> 50	> 50	> 50	> 50	> 50	> 50	> 60	> 60	> 60	> 60	> 55	> 55	> 60	> 60	> 60	> 50	> 50
Ignition Loss	ASTM F 495-98	%	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 28	< 28	< 28	< 30	< 30	< 30	< 28	< 28
Gas Permeability (Sealability against nitrogen)	BS 7531 EN15513	ml/min	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 0.50	< 1.00	< 0.50	< 1.00	< 0.50	< 1.00	< 0.80	< 0.80	< 1.00
Residual Stress	BS 7531 EN15513	Mpa	~ 22	~ 22	~ 22	~ 22	~ 22	~ 22	~ 25	~ 25	~ 25	~ 25	~ 25	~ 25	~ 25	~ 25	~ 25	~ 25	~ 25
Flexibility @RT (Cracking, delamination or distress)	BS 7531	—	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Oil Absorption 5 H @ 150°C (Thickness/Max)	BS 7531	%	< 10/< 12	< 10/< 12	< 10/< 12	< 10/< 12	< 8/< 8	8-20	8-20	< 7/< 8	< 5/< 5	< 7	< 7	< 6/< 10	< 5/< 10	< 5/< 7	< 5/< 10	< 5/< 10	< 5/< 10
Fuel B Absorption 22 H @ RT (Thickness/Max)	ASTM F 146	%	< 12/< 12	< 12/< 12	< 10/< 12	< 10/< 12	< 10/< 10	8-20	8-20	< 7/< 8	< 6/< 6	< 7	< 7	< 6/< 10	< 5/< 10	< 5/< 7	< 5/< 10	< 5/< 10	< 5/< 10
Water Absorption 5 H @ 100°C (Thickness)	BS 7531	%	< 12	< 12	< 9	< 9	< 8	< 9	< 9	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Short Term Temperature	—	°C	300	350	350	350	375	400	375	400	400	450	400	450	500	450	450	600	650
Continuous Service Temperature	—	°C	225	250	235	250	250	250	225	250	275	300	400	450	300	350	210	450	550
Max. Continuous Temperature with steam	—	°C	200	225	225	225	225	250	225	250	275	275	375	425	275	325	210	425	525
Pressure	—	bar	50	60	80	90	100	110	100	110	150	160	150	160	150	160	120	160	200



PERFECT PACKINGS & SEALS

PTFE MOULDED / MACHINED COMPONENTS



BELLOWS



PTFE RODS / SHEETS



**PTFE TUBES &
MACHINED COMPONENTS**



**UNIVERSAL ROPES
& TAPES**

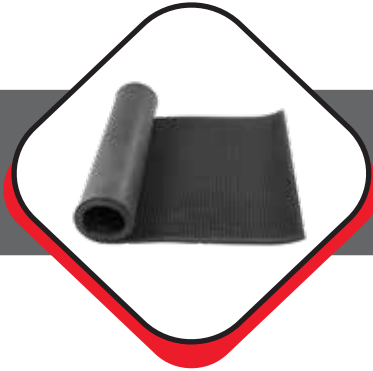


PERFECT PACKINGS & SEALS

RUBBER SHEETS



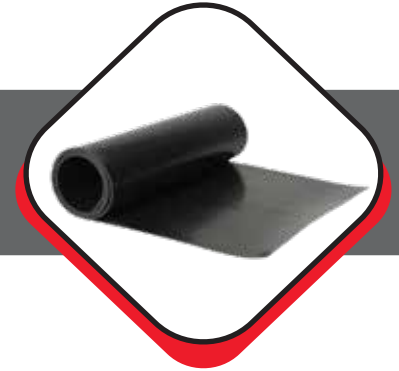
ABRASION SHEETS



ELECTRICAL MATS



EPDM/NBR/SBR
SILICON SHEETS



BUTYL/VITON
SHEETS



PERFECT PACKINGS & SEALS

MAX STAR

AKMUS®

THREAD SEAL TAPE WITH PTFE



PRODUCT NUMBER	DESCRIPTION	PACK
"AKMUS"	12MM X 12 MTRS X 0.08MM THK	10
	19 MM X 12 MTRS X 0.08MM THK	10
	25 MM X 12 MTRS X 0.08MM THK	10
"MAX STAR" (GENERAL PURPOSE)	12MM X 10 MTRS X 0.05MM THK	10
	19 MM X 10 MTRS X 0.05MM THK	10
	25 MM X 10 MTRS X 0.05MM THK	10

MAX STAR



PERFECT PACKINGS & SEALS

AKMUS®

THREAD SEAL TAPE WITH PTFE

COMMON APPLICATIONS

"AKMUS" Thread Seal Tape with PTFE can be used on galvanized steel, iron, brass, copper, aluminum, stainless steel, Polyethylene, Polypropylene, PVC, CPVC, ABS and Fiberglass Threaded Piping. The Product is compatible with Dilute Acids, Compressed Air, Solvents, Caustics, Oils, Diesel, Fuels, Hydraulic Fluids, Gases, Vegetable Oils, Natural Gases, Water etc.

Physical / Chemical Properties

Appearance - White Colour

Pressure Rating* - 10,000 psi

INGREDIENTS -100 % PTFE

Temperature Range - (-450° F to 500°F)

Tensile Strength - 1245 to 2500 psi

Thickness - 0.08 thk to 0.1 mm thk

Density - 0.5-0.75 g/cc

Shelf Life - Indefinite

***Pressure rating is relative to the torque and quality of the threads product is considered an "article" as defined in and the amount of tape used.**

Directions For Use

For threads up to 1-½" diameter, use ½" width of thread Tape. Clean the male and female threads of any oil or Dirt. Apply the thread seal tape a minimum of three wraps, using care to wrap in the direction of the thread rotation. Be sure to keep tension on the tape while wrapping. Do not overlap the tape on the ends of the fitting.

Technical Specifications

Meets Military Specification MIL-T-27730A, FOOD
GRADE US FDA 21.CFR.177.2600



PERFECT PACKINGS & SEALS

HOT INSULATION PRODUCTS



CERAMIC BLANKETS



CERAMIC BOARDS



CERAMIC CLOTH
& ROPES



CERAMIC VERMICULITE
FIRE BLANKETS



PERFECT PACKINGS & SEALS

ADHESIVES – SEALANTS – COATINGS



LOCTITE®



Devcon®



BELZONA®
Repair • Protect • Improve




Pidilite




Anabond®

Our Facilities

Unit-1



Our Facilities

Unit-2



Unit 2 : #31 Chelliammannagar Vadaperumbakam, Chennai-600 060

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