



**ALASKA**  
PUF INDUSTRIES



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**The Best Quality & Best Services**

# COMPANY PROFILE

## INTRODUCTION:

We M/S Alaska PUF Industries commenced our business operations in year 2008 to cater the Industry demands for the Rigid PUF/PIR Insulations materials. M/S Alaska PUF Industries is backed by more than 28 years of experience of M/S ASK Insulators Pvt. Ltd. which is one of the most trusted name in Insulation Industry. We offer our customers Industry's best product quality with wide range of variety in products with timely delivery. We have established the production of PUF/PIR Rigid Foam and have registered an enviable position as one of the leading manufacturer and supplier of Rigid PUF/PIR Insulation materials in this competitive industry. With the implementation of latest technology and modern methods, we produce a broad spectrum of products such as PUF/PIR Slabs, PUF/PIR Pipe sections, PUF/PIR Pipe Support, PUF In-Situ applications etc. with variety of finishing materials.

## PRODUCTS:

As a reliable business entity, we produce quality assured products at market leading prices. All the products are manufactured using high grade of raw material mainly procured from world leaders of PUF Chemicals Manufacturers like HUNTSMAN, BASF, BAYER, DOW, NIPPON etc. Our products exhibit high quality at most reasonable rates. The active support provided by our skilled team of employees and advanced infrastructure has helped us in producing wide range of products described as following:

- PUF/PIR Slabs in thickness of 15MM to 325MM in standard sizes of 1 Mtrs x 1 Mtrs and 1 Mtrs x 0.50 Mtrs or any customized size.



- PUF/PIR Pipe Section for the pipe sizes of 15 NB to 500 NB in various thicknesses in range of 25MM to 100MM in single layer and other thicknesses in multiple layers.

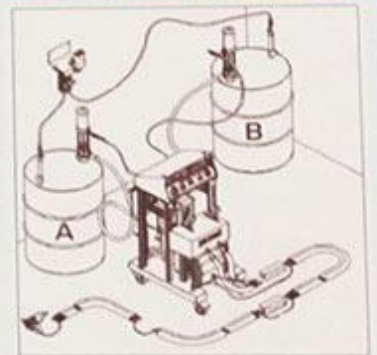
- **PUF/PIR High Density Pipe Support** in square and round shape for the pipe size of 15NB to 900 NB as per customer drawing and design. Density will be from 100Kg/M<sup>3</sup> to 500Kg/M<sup>3</sup>.



- **PUF High Density Support** for isolation of structure from foundation for cold storage industries, gas storage tanks, chemical storage tanks etc.
- **Factory laminated PUF/PIR Slabs and Pipe Section** with variety of materials like Craft Paper, Bituminized Hessian Cloth, Aluminium Foil, Aluminized paper with Fiber Thread Reinforcement, Fiber GLASS CLOTH, Fiber GLASS TISSUE paper etc.



- **PUF In-situ** work for the Pipelines, Chemicals Processing Reactors, Liquid Gas Storage Tanks, Large Diameter pipe sizes, Cavity Filling, AHU Panels, Fire Proof Doors, Shipping Containers, etc.



- **PUF Spray Insulation** on the roofs as over deck insulation with Polyurea Coating.
- Any other customized shapes and sizes as per the Customer requirements like PUF Supports for Ceramic Industries, Model Making, Wind Mill Blades, Floating Buoys and Corrugated PUF Sheets for wall.



## APPLICATIONS OF OUR PRODUCTS:

PUF/PIR Insulation materials can be utilized for the wide temp. range of -180 °C to +150 °C  
It is used mainly for following industries:

- Refrigeration Systems of Dairy, Pharmaceuticals, Chemicals, Fish and Food Processing Units.
- Utility Systems of Chilled water and Brine water plants and pipe lines in all most all variants of Industries.
- Gas and Oil Sector pipe lines and process equipments.
- Under deck Insulation of Buildings and Roof Structure.
- Over Deck Insulation with PUF Spray on the Buildings and Roof Structures.
- Storage tanks and pipe lines of Liquid Gas Storage Tanks.

## TECHNICAL STANDARDS :

For PUF IS 12436 1988 PUR-2 Grade  
For PIR IS 12436 1988 PIR-2 Grade  
ASTM C591 PIR (type II & type III)

## INFRASTRUCTURE :

We have a 10000 Sq. Feet of Factory building with power supply of 25 H.P. which accommodates following Machines.

- HP 60 PUF/PIR Chemicals Dispensing Machine.
- HF 1600 High Pressure PUF/PIR Chemicals Dispensing Machine for PUF In-situ & PUF Spray
- 12 Feet x 6 Feet wide hydraulic press for AHU Panels and Fireproof doors.
- Air Compressor
- Chiller Machine for PUF/PIR Chemicals.
- Various size of moulds for Pipe Sections, Slabs & Pipe Supports.
- Vertical Block Cutting Machine.

And above all well-equipped office supported with Computer system equipped with Broadband, Printer, Scanner etc.

## REGISTRATION DETAILS :

- GSTIN Registration No. :- 24AAPFA5449Q1ZR
- Permanent Account Number :- AAPFA5449Q
- S.S.I.Registrartion :- 24 007 11 05696
- Bankers :- Kotak Mahindra Bank

## ANNUAL TURN OVER :

- Year 2008-2009 : Rs. 36.00 Lacs.
- Year 2009-2010 : Rs. 73.00Lacs.
- Year 2010-2011 : Rs. 105.00 Lacs.
- Year 2011-2012 : Rs. 129.00 Lacs
- Year 2012-2013 : Rs. 155.00Lacs.
- Year 2013-2014 : Rs. 243.00Lacs.
- Year 2014-2015 : Rs. 198.00Lacs.
- Year 2015-2016 : Rs. 245.00Lacs.
- Year 2016-2017 : Rs. 297.00 Lacs

## LIST OF REPUTED CLIENTS :

### → Petrochemicals Industries

- Adani Enterprises - Hazira
- Gas Authority of India Ltd. - Vijaipur
- ONGC Petroadditions Ltd. - Dahej
- Reliance Industries Ltd. - Jamnagar

### → Chemical Industries

- Agrocell Industries Ltd.
- DCW Ltd.
- Fermenta Biotech Ltd.
- Gujarat Florocarbon Ltd Dahej
- Orient Carbon and Chemicals
- Ralies India Ltd.
- SRF Ltd. Dahej
- UPL Limited

### → Pharmaceuticals Industries

- Aculife Healthcare Pvt. Ltd.
- Amneal Pharmaceuticals
- Central Research Institute Shimla
- Torrent Pharmaceuticals Ltd.

### → HVAC

- Classic Airtech Pvt Ltd.
- Suvidha Engineers Ltd.

### → Service Providers

- AAA Supports
- Adarsh Insulation
- Frick India Ltd.
- Gayatri Insulation
- Kaefer Punj Ltd.
- Mechzeal Interphasing Pvt. Ltd.
- Neerav Insulation
- Om Sai Enterprise
- PMG Steels Pvt Ltd.
- R.D. Fabricators
- S.B.Trading Co.
- Sheth Insulation Pvt Ltd.
- Shreemaya Insulation
- Taikisha Engineering Pvt Ltd.
- Vardhmaan Insulation Pvt Ltd.

### → Food Industries

- Ashtavinayaka Technocrafts Pvt Ltd.
- Mother Dairy
- Palanpur Dairy Ltd.
- Sabarkantha Dairy Ltd.
- Unique MEP Project Ltd.

### → Green Energy Industries

- Lanco Solar Power Project - Chhatisghadh

- Cairn India Ltd - A.P.
- Hindustan Petroleum Corporation Ltd. - Vishakhapatnam
- Petronet LNG Ltd. - Dahej

- Bharat Rasayan Ltd.
- Excel Industries Ltd.
- Grasim Industries Ltd.
- Nirma Ltd.
- PI Industries Ltd.
- Sajjan India Ltd.
- TranspexSilox Industries Pvt Ltd.

- Alembic Ltd Vadodara
- Cadila Healthcare Ltd. (Zydus)
- Intas Pharma Ltd.

- Hi-Tech Engineers
- Vision HVAC

- Abad Insulation Pvt Ltd.
- Associated Insulation
- G+H Liz India Pvt Ltd.
- IOT Anvesha Engg Construction Ltd.
- Mcdowells Insulation
- National Industrial Insulation
- Niraj Insulation Pvt Ltd.
- Onshore Construction India Ltd.
- Polybond Insulation Pvt Ltd.
- R.K.Insulation Pvt Ltd.
- Shah Insulation
- Shree Bhavani Insulation Pvt Ltd.
- Solar Insulators
- Thermon Ltd
- Vinamra Insulation

- Mccain Foods Ltd.
- Natural Vegetables and Fruit Storage Pvt Ltd.
- Ruchi soya Industries
- Salet Sea Food Pvt Ltd.
- Vadilal Icecream

- BFG International Pvt. Ltd. Andhra Pradesh

## LIST OF REPUTED CLIENTS :

### ⇒ Material Suppliers

- Gujarat Corporation (Insulation)
- Kumar Enterprise
- Shreeji Insulation Enterprise

- Industrial Foam
- Ramdev Insulation

### ⇒ Others

- Arvind Rubweb Controls Ltd.
- Bramhakumaris Abu
- Domes International India Ltd.
- Electrotherm Ltd.
- Ensol Pvt Ltd.
- IC Icemake Refrigeration Pvt Ltd.
- Momansa Enterprises
- Nakoda Textiles Ltd.
- Radiant Fire Door Systems
- Rajashree Polyfils Ltd.
- Sumandeep Vidyapeeth
- Thermosystems Pvt Ltd.
- Vardhman Acrylics Ltd.

## TYPICAL CHARACTERISTICS OF RIGID PU FOAM AS PER IS 12436 & ASTM C 591 STANDARDS

Sr. No.	CHARACTERISTICS	PUF/PIR AS PER IS 12436		PUF/PIR (TYPE-II) AS PER ASTM C 591	
		RESULT	UNIT	RESULT	UNIT
1	AVERAGE DENSITY (kg/m <sup>3</sup> )	36-40	kg/m <sup>3</sup>	40-45	kg/m <sup>3</sup>
2	COMPRESSIVE STRENGTH	205	kn/m	240	kPa
3	CLOSE CELL CONTENT	85	%	90	%
4	WATER ABSORPTION	0.5	max % by volume	0.7	max % by volume
5	WATER VAPOUR PERMEABILITY	8.5	max (ng/Pa-s-m)	5.1	max (ng/Pa-s-m)
6	THERMAL CONDUCTIVITY	0.021	AT (MEAN TEMP. (W/m-K) at 10 °C)	0.025	AT (MEAN TEMP. (W/m-K) at 10 °C)
7	DIMENSIONAL STABILITY max liner change AT 100 °C (+/-)2 °C	2.00	%	2.00	%

# TEST CERTIFICATES



No. NUTMECHNAFT0204\_3\_173

National Laboratory for Testing and Development of Thermal Insulation  
A Project under the National Facilities in Engineering and Technology with Industrial Collaboration (NAFETC) Scheme of AICTE

## TEST CERTIFICATE

Name and address of company: M/s Alkasa PUF Industries, 911, Adams Tower, Gulshah Towers, Ahmedabad-4  
Ref: Project for M/s Larsen Infratech Limited, LANCO Solar Power Project, Rajnagar (G.G.)

Type of test: Determination of Thermal Conductivity  
Test method: As per ASTM C177/B 1240

Specimen details: Material: Polyurethane foam (PIR Grade 7 as per IS1240) under conditioned

Test Results: The thermal conductivity of the sample at a specimen mean temperature of 10 °C is observed to be 0.027 W/m.K.

Investigator: Professor & Head, Mechanical Engineering Dept., Institute of Technology

Witnessed by: Tata Projects Limited, Alkasa PUF Industries  
Date: 06/03/2014

Institute of Technology, Wile Institute



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## TEST CERTIFICATE

Name and address of company: M/s Alkasa PUF Industries, 911, Adams Tower, Gulshah Towers, Ahmedabad-4  
Ref: Project for M/s Larsen Infratech Limited, LANCO Solar Power Project, Rajnagar (G.G.)

Type of test: Determination of Dimensional Stability  
Test method: As per IS 1229 (Part 5) / IS 1246

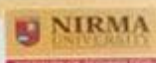
Specimen details: Material: Polyurethane foam (PIR Grade 2 as per IS1240) under conditioned

Test Results: The Dimensional Stability of the sample tested at 100 °C for 24 hr is observed to be:  
Change in Length = 0.17 %  
Change in Width = 1.36 %  
Change in Thickness = 0.83 %

Investigator: Professor & Head, Mechanical Engineering Dept., Institute of Technology

Witnessed by: Tata Projects Limited, Alkasa PUF Industries  
Date: 06/03/2014

Institute of Technology, Wile Institute



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National Laboratory for Testing and Development of Thermal Insulation  
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## TEST CERTIFICATE

Name and address of company: M/s Alkasa PUF Industries, 911, Adams Tower, Gulshah Towers, Ahmedabad-4  
Ref: Project for M/s Larsen Infratech Limited, LANCO Solar Power Project, Rajnagar (G.G.)

Type of test: Determination of Dimensional Swelling Characteristics  
Test method: As per IS 1229 (Part 12) / IS 1246

Specimen details: Material: Polyurethane foam (PIR Grade 2 as per IS1240) under conditioned

Test Results: The Mean Swell Ratio for the test specimens = 22.17 mm  
The Mean Extension Ratio for the test specimens = 0.27  
The Mean Swell Ratio for the test specimens = 0.26 mm  
The Mean Swell Loss for the test specimens = 0.2 %

Investigator: Professor & Head, Mechanical Engineering Dept., Institute of Technology

Witnessed by: Tata Projects Limited, Alkasa PUF Industries  
Date: 06/03/2014

Institute of Technology, Wile Institute



No. NUTMECHNAFT0204\_3\_170

National Laboratory for Testing and Development of Thermal Insulation  
A Project under the National Facilities in Engineering and Technology with Industrial Collaboration (NAFETC) Scheme of AICTE

## TEST CERTIFICATE

Name and address of company: M/s Alkasa PUF Industries, 911, Adams Tower, Gulshah Towers, Ahmedabad-4  
Ref: Project for M/s Larsen Infratech Limited, LANCO Solar Power Project, Rajnagar (G.G.)

Type of test: Determination of Water Vapor Transmission Rate, Permeance and Permselectivity  
Test method: As per IS 11229 (Part 6) / IS 1246

Specimen details: Material: Polyurethane foam (PIR Grade 2 as per IS1240) under conditioned

Test Results: Water Vapor Permeability = 0.043 g/(Pa.m)  
Water Vapor Permeance = 0.001 g/(m<sup>2</sup>.h.Pa)  
Water Vapor Transmission Rate = 124.09 g/(m<sup>2</sup>.d)

Investigator: Professor & Head, Mechanical Engineering Dept., Institute of Technology

Witnessed by: Tata Projects Limited, Alkasa PUF Industries  
Date: 13/03/2014

Institute of Technology, Wile Institute



No. NUTMECHNAFT0204\_3\_171

National Laboratory for Testing and Development of Thermal Insulation  
A Project under the National Facilities in Engineering and Technology with Industrial Collaboration (NAFETC) Scheme of AICTE

## TEST CERTIFICATE

Name and address of company: M/s Alkasa PUF Industries, 911, Adams Tower, Gulshah Towers, Ahmedabad-4  
Ref: Project for M/s Larsen Infratech Limited, LANCO Solar Power Project, Rajnagar (G.G.)

Type of test: Determination of Volume Percent of Closed Cells  
Test method: As per IS 11229 (Part 1) / IS 1246

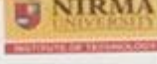
Specimen details: Material: Polyurethane foam (PIR Grade 2 as per IS1240) under conditioned

Test Results: The Volume Percent of Closed Cells is observed to be 96.85 %

Investigator: Professor & Head, Mechanical Engineering Dept., Institute of Technology

Witnessed by: Tata Projects Limited, Alkasa PUF Industries  
Date: 13/03/2014

Institute of Technology, Wile Institute



No. NUTMECHNAFT0204\_3\_175

National Laboratory for Testing and Development of Thermal Insulation  
A Project under the National Facilities in Engineering and Technology with Industrial Collaboration (NAFETC) Scheme of AICTE

## TEST CERTIFICATE

Name and address of company: M/s Alkasa PUF Industries, 911, Adams Tower, Gulshah Towers, Ahmedabad-4  
Ref: Project for M/s Larsen Infratech Limited, LANCO Solar Power Project, Rajnagar (G.G.)

Type of test: Determination of Compressive Strength  
Test method: As per IS 11229 (Part 11) / IS 1246

Specimen details: Material: Polyurethane foam (PIR Grade 2 as per IS1240) under conditioned

Test Results: The Compressive Strength of the sample is observed as 123.11 kN/m<sup>2</sup>

Investigator: Professor & Head, Mechanical Engineering Dept., Institute of Technology

Witnessed by: Tata Projects Limited, Alkasa PUF Industries  
Date: 13/03/2014

Institute of Technology, Wile Institute



No. NUTMECHNAFT0201\_02\_177

National Laboratory for Testing and Development of Thermal Insulation  
A Project under the National Facilities in Engineering and Technology with Industrial Collaboration (NAFETC) Scheme of AICTE

## TEST REPORT

Name of industry: M/s Alkasa PUF Industries, Survey No. 476, Village: Chakola, Tal. Chakola, Ahmedabad

Client: M/s Hindustan Petroleum Corporation Limited, Vithalapuram, C/o M/s Bridge & Roof Co. (India) Limited, Vithalapuram  
Third party Inspection - Certification Engineering International Limited

Test material: Polyurethane Foam (PIR Grade 5) (Identification - CS\_198)

No.	Test details	Observed value	Reference value as per IS specification No. 6-44-0002 Ser. 1	Standard
1	Compressive strength	111.02 kPa	200 kPa	IS 11229 part 11
2	Flexural strength	411.68 kPa	270 kPa	IS 11229 part 12
3	Dimensional stability	Change in length: 0.6 % Change in width: 0.11 % Change in thickness: 1.81 %	2% 2% 2%	IS 11229 part 1

Investigator: Mr. A. M. Vaidya, Senior Supervisor, Certification Engineering International Limited, Ahmedabad (13-14-2014)

Witnessed by: Professor & Head, Mechanical Engineering Department, Institute of Technology

Date: 03/02/2017

Institute of Technology, Wile Institute



No. NUTMECHNAFT0201\_02\_172

National Laboratory for Testing and Development of Thermal Insulation  
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## TEST REPORT

Name of industry: M/s Alkasa PUF Industries, Survey No. 476, Village: Chakola, Tal. Chakola, Ahmedabad

Client: M/s Hindustan Petroleum Corporation Limited, Vithalapuram, C/o M/s Bridge & Roof Co. (India) Limited, Vithalapuram  
Third party Inspection - Certification Engineering International Limited

Test material: Polyurethane Foam (PIR Grade 5) (Identification - CS\_198)

No.	Test details	Observed value	Reference value as per IS specification No. 6-44-0002 Ser. 1	Standard
1	Thermal conductivity at 20°C	0.028 w/m.K	0.028 w/m.K	ASTM C518
2	Thermal conductivity at mean 10°C	0.020 w/m.K	0.020 w/m.K	ASTM C177

Investigator: Mr. A. M. Vaidya, Senior Supervisor, Certification Engineering International Limited, Ahmedabad (13-14-2014)

Witnessed by: Professor & Head, Mechanical Engineering Department, Institute of Technology

Date: 03/02/2017

Institute of Technology, Wile Institute



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National Laboratory for Testing and Development of Thermal Insulation  
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## TEST REPORT

Name of industry: M/s Alkasa PUF Industries, Survey No. 476, Village: Chakola, Tal. Chakola, Ahmedabad

Client: M/s Hindustan Petroleum Corporation Limited, Vithalapuram, C/o M/s Bridge & Roof Co. (India) Limited, Vithalapuram  
Third party Inspection - Certification Engineering International Limited

Test material: Polyurethane Foam (PIR Grade 5) (Identification - CS\_198)

No.	Test details	Observed value	Reference value as per IS specification No. 6-44-0002 Ser. 1	Standard
1	Change in content	98.51 %	98.51 %	IS 11229
2	Water vapor permeability	0.019 g/(m <sup>2</sup> .h.Pa)	0.019 g/(m <sup>2</sup> .h.Pa)	IS 11229
3	Humid aging	Change in length: 0.21 % Change in width: 0.24 % Change in thickness: 0.15 %	2% 2% 2%	ASTM C177

Investigator: Mr. A. M. Vaidya, Senior Supervisor, Certification Engineering International Limited, Ahmedabad (13-14-2014)

Witnessed by: Professor & Head, Mechanical Engineering Department, Institute of Technology

Date: 03/02/2017

Institute of Technology, Wile Institute

