Foaming Agents

Extruded Polystyrene / **Isobutane**

Isobutane: LPG foaming agent for applications with styrene.

Isobutane is a single-component foaming agent in the form of liquefied gas, characterized by its low pressure with a 1.3-butadiene content of less than 0.1% by weight. It can be used to foam polystyrene in both its extruded and expanded versions, so it can be used both in the manufacture of XPS or EPS sheets and in the manufacture of food packaging.

Chemical Name:	CAS Number:
2-methylpropane	75-28-5

Technical Characteristics:

> Extremely flammable, colorless, and odorless liquefied gas.
> Poorly compatible with water and polar solvents.
> Does not affect the ozone layer and low global warming potential (GWP)

Packaging:

- Cylinder
- Roll drums
- Containers - Tank

Applications

Insulation panels in XPS and EPS

Manufacture of polystyrene packaging.

Properties:

Chemical Formula	C4H10	
Molecular Weight	58,12	g/mol
Boiling Point	-11,9	°C
Vapor pressure (20ºC)	2,0	bar
Vapor pressure (50ºC)	5,8	bar
Liquid Density (20ºC)	0,56	kg/l
Liquid Density (50ºC)	0,52	kg/l
Kauri - Butanol	18	
Solubility in water (20ºC)	0,008	%weight
LEL (Lower Explosive Limit)	1,8	% volume
UEL (Upper Explosive Limit)	8,4	% volume
1,3-butadiene content	<0.1	%weight

Table of temperature, pressure and density:

Temperature (ºC)	Gauge pressure (bar)	Liquid density (kg/l)
0	0,6	0,581
5	0,9	0,575
10	1,2	0,569
15	1,6	0,563
20	2,0	0,557
25	2,5	0,551
30	3,0	0,544
35	3,6	0,538
40	4,3	0,531
45	5,0	0,524
50	5,8	0,517
55	6,7	0,510
60	7,7	0,503
65	8,7	0,495

More information:

If you want more information about our products, contact us.

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