Foaming Agents

Polyurethane / **Isopentane**

Isopentane: Foaming agent for EPS, XPS and Polyurethane.

Isopentane is a liquid hydrocarbon obtained from petroleum that is mainly used for the manufacture of rigid polyurethane, but can also be used in EPS and XPS. It is characterized by having a low boiling point and relatively close to old fashioned and banned blowing agents used in the industry such as R11 and R141b, but without affecting the ozone layer and the greenhouse effect that these had.

When used in polyurethane, foams with lower density, good dimensional stability, and mechanical properties are obtained.

Chemical Name:

2-methylbutane

CAS Number:

78-78-4

Technical Characteristics:

> Extremely flammable and colorless liquid hydrocarbon.
> Good chemical stability.
> Intermediate thermal conductivity.
> Does not affect the ozone layer and low global warming potential (GWP).
> Product with high impact in terms of SEVESO regulation due to its high flammability and low boiling point.

Packaging:

- Drums
- Roll drums
- Containers - Tank

Applications:

Polyurethane mainly for the manufacture of sandwich panel or mixed with other hydrocarbons.

EPS

XPS

Properties:

Chemical Formula	C5H12	
Molecular Weight	72,15	g/mol
Boiling Poin	28	°C
Vapor pressure (20ºC)	0,8	bara
Vapor pressure (50ºC)	2,1	bara
Liquid Density (20ºC)	0,62	kg/l
Liquid Density (50ºC)	0,59	kg/l
Thermal conductivity (20ºC)	13	mW/mK
LEL (Lower Explosive Limit)	1,3	% volume
UEL (Upper Explosive Limit)	7,6	% volume

More information:

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

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