

Agentes hinchantes

Polyurethane / Cyclopentane



Cyclopentane: Foaming agent for EPS, XPS, and polyurethane.

Cyclopentane 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 as being the pentane with the lowest thermal conductivity value, which is why it is usually used in applications where good thermal insulation is required.

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

Chemical Name:

Cyclopentane

CAS Number:

287-92-3



Technical Characteristics:

- > Highly flammable and colorless liquid hydrocarbon.
- > Good chemical stability.
- > Superior thermal conductivity to other pentanes used in PU.
- > Does not affect the ozone layer and low global warming potential (GWP).
- > Product with less impact in terms of SEVESO regulations due to not being considered an extremely flammable liquid.

Packaging:

- Drums
- Roll drums
- Containers - Tank

Applications:



Polyurethane used mainly for the manufacture of high insulation PU or mixed with other pentanes.



EPS



XPS

Properties:

Chemical Formula	C5H12	
Molecular Weight	70,1	g/mol
Boiling Point	48	°C
Vapor pressure (20°C)	0,3	bara
Vapor pressure (50°C)	1,0	bara
Liquid Density (20°C)	0,74	kg/l
Liquid Density (50°C)	0,71	kg/l
Thermal conductivity (20°C)	11	mW/mK
LEL (Lower Explosive Limit)	1,5	% volume
UEL (Upper Explosive Limit)	8,7	% volume

More information:

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

EUROPE

GRIT, Gases Research Innovation & Technology

BARCELONA

Our plant:

P. I. "El Punsic", parcela 8.3,
08279 Avinyó, Barcelona. Spain.

Our office:

C/ Consell de Cent 419, Pral 1^a y 2^a,
08009, Barcelona. Spain.

Phone: (+34) 932 721 400
E-mail: grit@grit.es
Website: www.gasesgrit.com

USA

Summit Refrigerants

HOUSTON

8541 East North Belt
Humble, Texas 77396

Phone: (+1) 281-540-2653
Toll-Free: (+1) 866-971-2653
Fax: (+1) 281-540-0385

DALLAS

2080 McDaniel Drive
Suite 200
Carrollton, Texas 75006

Phone: (+1) 469-458-3195
Fax: (+1) 469-458-3085

BATON ROUGE

10080 Industriplex Avenue
Gonzales, LA 70737

Phone: (+1) 225-744-2653
Fax: (+1) 225-677-6106