Foaming Agents

Extruded Polystyrene / **R-152a**

R-152a : Foaming agent for XPS foams and PU sprays.

R-152a (1,1-difluoroethane) is a low GWP HFC that despite being affected by regulation 517/2014, also known as the F-gas regulation, is permitted for use in both plastic foam applications and polyurethane foam sprays.

As a foaming agent, it is characterized by providing good mechanical characteristics, dimensional stability, and thermal conductivity in XPS. On the other hand, it is usually used as a propellant - foaming agent in more technical polyurethane sprays.

Chemical Name:

1,1-difluoroethane

CAS Number:

R-152a

Technical Characteristics:

> GWP: 124 lower than the 150 that the F-gas regulation establishes as the maximum limit for use as a foaming agent
> Good mechanical, dimensional, and thermal conductivity properties in XPS.
> It can be used mixed with other blowing agents such as dimethyl ether or carbon dioxide in XPS.

Packaging:

- Cylinder
- Roll drums
- Containers - Tank

Applications:

Polyurethane Aerosol Propellant

Foaming agent for XPS

Thermodinamic properties chart:

Temperature (ºC)	Absolute pressure (bar)	Liquid density (kg/l)	Gas density (kg/l)	Thermal conductivity gas (mW/m K)
-10	1,8152	0,98128	0,0058515	10,872
-5	2,1977	0,9703	0,007017	11,404
0	2,6399	0,95911	0,0083588	11,946
5	3,1478	0,94771	0,0098964	12,498
10	3,7276	0,93607	0,011651	13,063
15	4,3858	0,92417	0,013647	13,643
20	5,129	0,91197	0,015909	14,24
25	5,9641	0,89947	0,018469	14,858
30	6,8982	0,88661	0,021357	15,501
35	7,9385	0,87336	0,024613	16,174
40	9,0926	0,85967	0,02828	16,883
45	10,368	0,8455	0,032408	17,636
50	11,774	0,83078	0,037057	18,443
55	13,317	0,81543	0,0423	19,316
60	15,007	0,79937	0,048222	20,273
65	16,853	0,78248	0,054932	21,334

More information:

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

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