

Foaming Agents

Polyurethane / HFO-1233zd



HFO-1233zd: HFO foaming agent for low GWP, non-flammable polyurethanes

HFO-1233zd is a 4th generation foaming agent designed to replace R245fa used in the past, it can be used in all application ranges of polyurethane and PIR.

IUPAC Name:

Trans-1-chloro-3,3,3-trifluoropropene

CAS Number:

N/A



Technical Characteristics:

- > Non-flammable.
- > Boiling point 19°C
- > Compatible with most polyols.
- > Good solvent.

Packaging:

- Cylinder
- Roll drums
- Containers - Tank

Applications:



Polyurethane panels



Projected polyurethane applications



Manufacture of polyurethane blocks



Sprayed polyurethane systems

Table of product properties:

HFO-1233zd

Temperature (°C)	Absolute pressure (bar)	Liquid density (kg/l)	Gas density (kg/l)	Thermal conductivity gas (mW/m K)
0	0,48111	1,3213	0,0028363	8,6005
5	0,5968	1,3099	0,0034705	9,0082
10	0,73365	1,2983	0,0042117	9,4175
15	0,89429	1,2866	0,0050725	9,8286
20	1,0815	1,2748	0,0060659	10,242
25	1,2981	1,2628	0,0072061	10,658
30	1,5471	1,2506	0,0085083	11,076
35	1,8319	1,2382	0,0099887	11,498
40	2,1555	1,2256	0,011665	11,923
45	2,5214	1,2128	0,013555	12,352
50	2,9332	1,1997	0,01568	12,785
55	3,3944	1,1864	0,018062	13,224
60	3,9088	1,1728	0,020726	13,669
65	4,4802	1,1589	0,023698	14,12

More information:

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

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