

Foaming Agents

Polyurethane / R-365mfc / R-227ea



R-365mfc / R-227ea: Liquid foaming agent for polyurethane foams.

It is a liquid mixture of third generation hydrofluorocarbons with no ozone depletion potential. It is a non-flammable mixture of 1,1,1,3,3-pentafluorobutane and 1,1,1,2,3,3,3-heptafluoropropane. There are two basic compositions, one with a ratio of 87:13 and the other 93:7 depending on the boiling point that the client needs. This product is used for rigid PU foams for insulation purposes, and in the manufacture of polyurethane systems for polyurethane spraying. It provides fine cell structure, good insulation properties and good compressive strength. Although the mixture has no flash point, it has flammability limits in air.

Chemical Name:

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CAS Number:

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Technical Characteristics:

- > Non-flammable liquid mixture, not considered dangerous goods by ADR.
- > Third generation HFCs for use in polyurethane for insulation purposes and in polyurethane systems.
- > Provides good stability, mechanical and insulation properties.

Packaging:

- Drums

Applications:



Polyurethane panels



Manufacture of polyurethane blocks



Sprayed polyurethane applications and systems

Table of product properties:**R-365mfc / R-227ea 93:7**

Temperature (°C)	Absolute pressure (bar)	Liquid density (kg/l)	Gas density (kg/l)	Thermal conductivity gas (mW/m K)
0	0,34143	1,3213	0,0024301	11,937
5	0,42033	1,3108	0,002939	12,25
10	0,51352	1,3002	0,0035301	12,564
15	0,62284	1,2894	0,0042128	12,879
20	0,75024	1,2785	0,0049972	13,197
25	0,89782	1,2675	0,005894	13,519
30	1,0678	1,2564	0,0069147	13,844
35	1,2625	1,2451	0,0080714	14,176
40	1,4843	1,2337	0,0093773	14,515
45	1,7358	1,2221	0,010846	14,862
50	2,0197	1,2103	0,012494	15,219
55	2,3386	1,1983	0,014335	15,589
60	2,6956	1,1861	0,016389	15,972
65	3,0934	1,1737	0,018673	16,37

Table of product properties:**R-365mfc / R-227ea 87:13**

Temperature (°C)	Absolute pressure (bar)	Liquid density (kg/l)	Gas density (kg/l)	Thermal conductivity gas (mW/m K)
0	0,46628	1,332	0,0034043	11,822
5	0,56776	1,3212	0,004075	12,15
10	0,68626	1,3102	0,0048456	12,478
15	0,82376	1,2991	0,0057265	12,808
20	0,98235	1,2879	0,0067286	13,141
25	1,1642	1,2766	0,0078634	13,476
30	1,3717	1,2651	0,0091433	13,815
35	1,6072	1,2534	0,010581	14,16
40	1,8732	1,2416	0,012192	14,512
45	2,1724	1,2296	0,01399	14,872
50	2,5074	1,2174	0,015991	15,242
55	2,881	1,205	0,018213	15,623
60	3,2963	1,1923	0,020676	16,017
65	3,756	1,1794	0,023399	16,425

More information:

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

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