

Honeywell Solstice® Gas Blowing Agent



**High performance, LGWP blowing agent
for extruded polystyrene (XPS) insulation
and more**

Honeywell

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- High insulation performance
- Low GWP of <1
- Non-flammable and safe to use
- Low rate of diffusion and longer insulation life
- Low transition costs to convert from HFC and non-fluorocarbon blowing agents

Honeywell Solstice® Gas Blowing Agent (GBA) has been developed for extruded polystyrene, and pressurized one- and two-component PUR foams. It is a replacement for HFC-134a and other fluorocarbon and non-fluorocarbon blowing agents. Solstice GBA is non-flammable having a boiling point of -3°F. It has an ultra low GWP of <1, a low MIR, low POCP and low contribution to ground level smog formation.

Solstice GBA allows extrusion of thick, dimensionally stable foam. XPS boards produced using Solstice GBA have achieved lambda values as low as 27mW/m·K as per EN 13164 Annex C.

Solstice GBA is a near drop-in replacement for many extrusion processes currently using CO₂, HFC-134a and HFC-152a blowing agents.

Blowing Agent Comparison

	HFC 152a	CO ₂	HFC 134a	Solstice Gas Blowing Agent
Performance				
	Energy Efficiency	●	●	●
Cost effective				
	Ability to extrude thick panels	●	●	●
Environment				
	Adoption Cost/Ease	●	●	●
Safety				
	Lower Cost/Unit	●	●	●
	Global Warming Impact (direct and indirect)	●	●	●
	Volatile Organics	●	●	●
	Flammability	●	●	●

Physical properties

Molecular Weight	114
Boiling Point	-3°F (-19°C)
Vapor Thermal Conductivity	13.0 mW/m·K
Global Warming Potential (GWP)	<1
Non-Flammable	ASTM E-681 and EU A11
Lambda	27 mW/m·K [‡]

[‡]Per EN 13164 Annex C

About Honeywell

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