

A Revolutionary Step in Eco-Friendly Insulation: Seho Tech Unveils NeXgener(R) Foam Blowing Agent

Category: Business

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NeXgener[®]

In a transformative move for the global insulation industry, Seho Tech has introduced NeXgener(R), a next-generation polyurethane foam blowing agent that meets modern environmental standards without compromising performance.



Seho Tech unveils NeXgener(R), a next-gen polyurethane foam blowing agent designed to meet today's environmental standards

With mounting global pressure to eliminate substances that damage the ozone layer and contribute to global warming, industries have faced the difficult task of finding viable alternatives to traditional blowing agents. Previously favored compounds such as HCFCs and HFCs, although effective, have been heavily regulated and phased out due to their environmental impact. NeXgener(R) rises to this challenge by offering a solution that boasts zero Ozone Depletion Potential (ODP) and zero Global Warming Potential (GWP).

NeXgener(R) is a 100% chemical-based blowing agent specifically developed for polyurethane applications. It generates strong internal heat through a crosslinking reaction, enabling better control over foam expansion by adjusting water content. Its high hydroxyl value (OH-value of 400 50) allows for increased MDI usage, improving foam performance.

What sets NeXgener(R) apart is not only its environmental credentials but also its technical superiority. In rigid polyurethane (PIR) injection applications, it minimizes common issues such as shrinkage, decreased flowability, or extended demolding times. Additionally, when used with 100% ester polyol, it supports the production of low-density foam without surface defects, maintaining excellent flow and structural integrity.

Unlike many industrial chemicals, NeXgener(R) is non-toxic and non-flammable, offering a safer alternative for manufacturers and workers alike. The product produces fine-cell foam that provides outstanding thermal insulation, rivaling HCFC-141b. It also integrates seamlessly with existing physical blowing agents for enhanced performance.

NeXgener(R) comes as a light yellowish liquid, has a high

boiling point of 354, a flash point of 198, and a low viscosity (<100 cps at 25), making it stable and easy to handle. The product is available in 260 kg drums with a shelf life of 12 months when stored properly.

A Green Leap for Industry Standards

As sustainability becomes a core priority in manufacturing, innovations like NeXgener(R) mark a significant advancement in eco-conscious production. Seho Tech, through its research institute, continues to refine this technology, ensuring that industries can transition smoothly from harmful blowing agents to environmentally sound alternatives.

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