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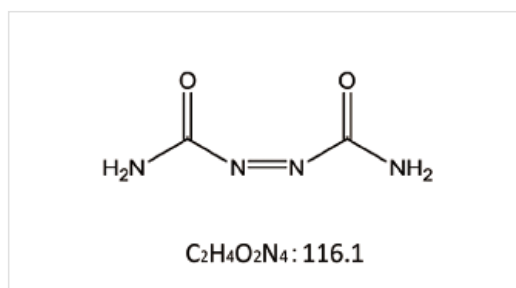
Unifoam AZ Chemical Foaming Ag

Unifoam AZ's Product Categories

[Foaming Agent](#)

Functional blowing agent for plastics and rubbers

UNIFOAM AZ epitomizes Otsuka Chemical's organic temperature decomposition-type foaming agent, which is mainly composed of Azodicarbonamide. UNIFOAM AZ enables the foaming cell structure in plastics and rubbers to weigh less and thus offers a variety of functioning attributes, such as heat-insulation, flexibility, sound-proof, cushion elasticity, ornamentation, etc.



Structure of Azodicarbonamide

Advantages

- Superior dispersibility in plastic, rubber, etc.
- Decomposition temperatures suitable for plastic and rubber processing
- Ability to control decomposition temperature and speed
- Large gas volume (220–245ml/g)
- Low amount of contamination from degradation
- Low degradation over time; excellent storage stability

Applications

- [Energy absorption, elastic functionality \(cushioning\)](#)
- [Sound absorption, automotive interiors](#)
- [Mechanical functionality \(elasticity, flexibility\)](#)
- [Light-weight applications](#)
- [Decorative \(wallpaper, leather\)](#)
- [Thermal \(heat insulation\)](#)

Azodicarbonamide

Chemical name	CAS RN®	REACH	TSCA
Azodicarbonamide (Azobisformamide) (Diazendicarboxamide)	123-77-3	01-2119493056-35	Listed

Physical property Unifoam AZ

Decomposition temperature	Gas yield	Specific gravity	Specific heat	Combustion heat	Heat of decomposition
195~202°C	220~245ml/g	1.65	0.26Kcal/kg·°C	217.2Kcal/mol	10Kcal/mol

Unifoam AZ Grade

Various Unifoam AZ grades are available to suit different types of plastics and rubbers, processing methods and conditions, and product types. Basic grades are listed below. Please refer to the Unifoam AZ brochure for more information.

Unifoam AZ basic grades

Unifoam AZ Ultra grades with anti-caking and low-dust treatment

Complex grades to accommodate various plastics and rubbers, processing methods and conditions

Other special grades

Please Contact us

- Detailed information on chemicals of Otsuka Chemical
- Questions about chemicals used in your products
- Actually take a quote

Tel: **+81-3-5297-2727**

[Contact us](#)

etc..., We'll answer your questions and consultation.

Unifoam AZ's Product Categories

Foaming Agent

A chemical foaming agent which is mainly composed of Azodicarbonamide (ADCA). We can offer in a wide variety of grades for various applications.

Unifoam AZ related Other Chemicals

TISMO

TISMO has high intensity, rigidity and aspect ratio. It is used as the resin reinforcement, friction material for automobile and precise filter etc.

DENTALL

DENTALL is comprised of a series of Otsuka ceramic materials covered with nanometer thick conductive layers.

Phosphazene

Halogen-free flame retardant. It is the best for a high performance electronic material with an excellent heat resistance and a high insulation.

Blended Foaming Agents

Our blended foaming agents are designed to provide functionality to foamed materials and meet the diverse processing needs conventional foaming agents cannot.

Unifoam AZ·Inorganic Foaming Agents Master Batch Type

It is the MB blowing agent of Unifoam AZ and Inorganic Foaming Agents.

TERRACESS

TERRACESS improves stability, abrasion resistance and comfort as friction adjustment materials of various friction materials.

RUVA-93

RUVA-93 is reactive ultraviolet absorber which is able to copolymerize efficiently with variety of vinyl monomers.

Unifoam AZ Ultra

A high-function type foaming agent produced by using anti-caking and low dust treatments on Unifoam AZ.

Inorganic Foaming Agents

It is a blowing agent of endothermic decomposition based on inorganic carbonate.