

Blowing Agent ADC

Azodicarbonamide

Technical Data Sheet

Azodicarbonamide (ADC)

Azodicarbonamide (AC or ADCA) is the most popular chemical blowing agent. Generally, it's pale yellow fine powder. It is one of the most widely used chemical foaming agents due to its non-toxic, odorless, self-extinguishing, relatively high decomposition temperature, and relatively large gas evolution properties, good dispersing in plastic and rubber. The particle size and distribution can be controlled with widely different ranges. The particle size and distribution is one of the most significant factors.

Chemical Data:

	Chemical Name	Molecular Formula	CAS No.	Class	EINECS No.
ADC	Azodicarbonamide	C ₂ H ₄ N ₄ O ₂	123-77-3	4.1	204-650-8

Applications:

It is well known as the most popular and effective chemical foaming agent for PVC, PS, PP, PE, TPR, EVA, ABS and rubber applications.

Physical Properties:

Item	Value	Unit
Appearance	Pale yellow fine powder with good dispersity	/
Purity	≥97	%
Decomposition Temperature	200-205	°C
Gas Evolution	≥220	ml/g
Average Particle Size	3-5	μm
Moisture	≤0.1	%
ASH	≤0.8	%
Loss on Heating	≤0.3	%
pH	6.5-7.5	/

Storage:

Storage stability is excellent under normal conditions. This product should be stored in a cool dry place, away from fire, spark and heat. If fire, extinguishing use water spray, carbon dioxide or dry chemical powder. Don't attempt manual fire-fighting.

Standard Packing:

Packed in 25kgs /carton lined with plastic bag or in paper drum.