

# Cargill Atmer™ 163

## Anti-Fouling Agent

### General

Chemical Description	Ethoxylated amine
Origin	Synthetic
Physical Forms Available	Liquid
CAS	Confidential

### Applications

Atmer™ 163 is used in olefin polymerization processes to eliminate fouling of the reactor, ensuring consistent production and minimizing shutdowns due to blockages.

### Mode of Action

Atmer™ 163 modifies catalyst activity, resulting in better particle size control, lubricates the product and the reactor walls, and reduces static charge build up. Additionally it can be used to decompose alkyl aluminum compounds in waste streams and to neutralize acidic catalyst residues.

### Benefits

- Atmer™ 163 is a synthetic product having an extremely consistent composition. Benefits include:
- Excellent stability
- Low odor
- Almost colorless
- Low volatility
- Low viscosity
- Remains pumpable down to -5 °C
- Good solubility in mineral oil and hydrocarbon solvents

### Recommended Polymers

- Atmer™ 163 is recommended for all Ziegler-Natta and related olefin polymerization processes. These include LLDPE, HDPE, PP homo and copolymers (random and heterophasic).

## PRODUCT DATA

### Typical Properties

PROPERTY	VALUE	UNIT
Color	< 50	Hazen at 25 °C
Neutralization equivalent	293 - 307	g / eq
Primary and secondary amine	< 2	%
Tertiary amine	98 - 100	%
Moisture	< 0.5	%

### Guidelines for Use

Atmer™ 163 can be dosed at any point in the polymerization process post catalyst addition. It can be used in the slurry processes, gas phase reactors or in systems which use a combination. It may also be dosed prior to heat exchangers to reduce fouling in these critical areas. It is also effective when dosed into scrubbers and waste streams to give a controlled neutralization of trialkyl aluminum co-catalysts.

### Physical Form, Packaging & Storage

Atmer™ 163 is supplied as a liquid in 180 kg drums as standard.

Keep tightly closed in a dry, cool and well ventilated place in original packaging only.

Shelf life of 730 days.

### Food Contact Status

Food contact statements are available upon request.

### Health and Safety Data

Atmer™ 163 is classified as hazardous. Please refer to the current Safety Data Sheet.

If you have further questions do not hesitate to **reach out to your local representative.**

#### SMPD/1011/00/EN

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