



## Technical Data Sheet

# DOWSIL™ 8500 Conditioning Agent

## FEATURES

- Amino functional siloxane polymer
- Can be used for clear and opaque products
- Low yellowing
- Free of animal-derived and vegetable- derived ingredients and genetically modified organisms
- Excellent compatibility with cyclopentasiloxane and isododecane
- Partial compatibility with ethanol
- Easy to formulate:
  - Cold and hot process possible
  - Can be added at the beginning or the end of formulation process
  - No solubilizer or suspending agent required - Easy to microemulsify

## BENEFITS

- Superior conditioning:
  - Strong wet and dry detangling
  - Smooth feel
- Color protection
- Heat protection
- Reduced Static
- Resistance to breakage

INCI NAME: Bis (C13-15 Alkoxy) PG Amodimethicone

## APPLICATIONS

- Clear and opaque conditioning shampoos
- Rinse-off conditioners
- Leave-in conditioners (detanglers, anhydrous serums, hair masks, mousses, etc.)
- Anhydrous systems (fixatives, leave on, etc.)
- Colorants (semi-permanent and permanent)

## TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

Parameter	Unit	Value
Appearance		Clear to hazy fluid
Viscosity at 25°C (77°F)	cSt	4000
Specific gravity at 25°C (77°F)		0.96
Flash point (Cleveland open-cup)	°C	132
	°F	270
Cyclotetrasiloxane (D4) content	%	< 0.1
Cyclopentasiloxane (D5) content	%	< 0.1

## DESCRIPTION

DOWSIL™ 8500 Conditioning Agent is an amino glycol copolymer. It combines the substantive conditioning of an amino silicone with the low yellowing and ease of formulation of a silicone glycol.

## BENEFITS

DOWSIL 8500 Conditioning Agent has demonstrated superior conditioning effects on hair due to its unique chemical structure. This unique chemical structure allows for the combined benefits of a hydrophobic material with the ease of formulation with no additional solubilizers.

DOWSIL 8500 Conditioning Agent has an excellent compatibility with cyclopentasiloxane and isododecane, and partial compatibility with ethanol, making it an excellent candidate for anhydrous systems such as fixatives and leave-in products.

DOWSIL 8500 Conditioning Agent is also easy to formulate in hydrous systems such as rinse-off conditioners and can be added at the beginning or at the end of the process. When DOWSIL 8500 Conditioning Agent is exposed to temperatures below 20°C (68°F) the product will freeze and form white

solid particles and eventually solidify. This is a reversible phenomenon and should not affect product performance. It can be melted by heating above 25°C (77°F).

## **HANDLING**

### **PRECAUTIONS**

#### **PRODUCT SAFETY**

**INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.**

## **USABLE LIFE AND STORAGE**

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 18 months from the date of production

## **PACKAGING INFORMATION**

This product is available in 18 kg jerry cans and 190 kg drums.

Samples are available in 500 ml.

## **LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **HEALTH AND ENVIRONMENTAL INFORMATION**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [www.consumer.dow.com](http://www.consumer.dow.com) or consult your local Dow representative.

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DOWSIL™ 8500 Conditioning Agent

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