

DEXCARE™ CD-1 Polymer

Boost your shampoo's conditioning effectiveness with Dow's renewable, bio-derived deposition aid

A natural formulation to enhance natural beauty. Easily processed cold or hot, this highly effective, biodegradable deposition aid offers unique performance conditioning benefits for shampoos. Used in combination with benefit agents such as silicones or natural oils, DEXCARE™ CD-1 Polymer allows for increased versatility and improves the natural content of formulations. Always focusing on implementing and protecting natural elements, dextran is made from fermented sucrose and is non-GMO, vegan, REACH compliant and made without animal testing. A natural solution to complement haircare and body wash products.



Product Overview

Property	Result
Bio-based carbon content (%)	81
Origin	Fermented, cane sugar
Biodegradability	Inherent, ultimate*
China regulatory status	Listed in the IECIC. Not listed in the IECSC‡.
Product form	30% active in water
Viscosity (cP)	<2000
Solubility in water	Soluble
pH and pH stability	6 and between 3-11
Recommended use level (%)	0.2-0.5
Temperature	Can be processed cold or hot, up to 80° C
% Nitrogen	1.30-1.90
Shelf life	1 year
Preservative	Phenoxyethanol
Recommended applications	Rinse-off: shampoo and body wash

Consumer benefits

For shampoos

- Enhanced dry combing with silicones
- Enhanced wet combing with silicones and natural oils
- Reduction in friction with silicones
- No silicone build-up on hair
- Improved sensory benefits with silicones

Formulator benefits

- Delivered in water
- Ease of processing
- Processed cold or hot
- Improves natural content in formula
- Biodegradable
- Highly effective deposition aid
- Compatibility with a wide range of surfactants, thickeners, silicones and natural oils
- Allows versatility in formulation chassis

*By an inherent biodegradation test conforming to OECD 302B guidelines (Zahn-Wellens) using acclimated sludge.

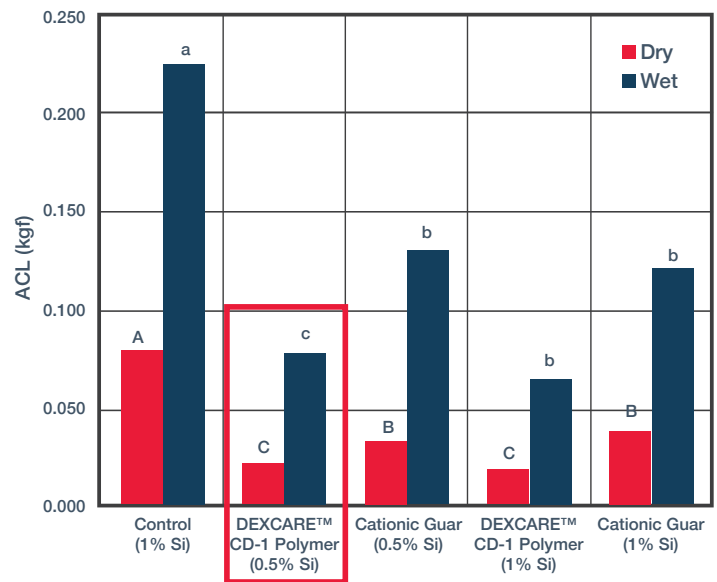
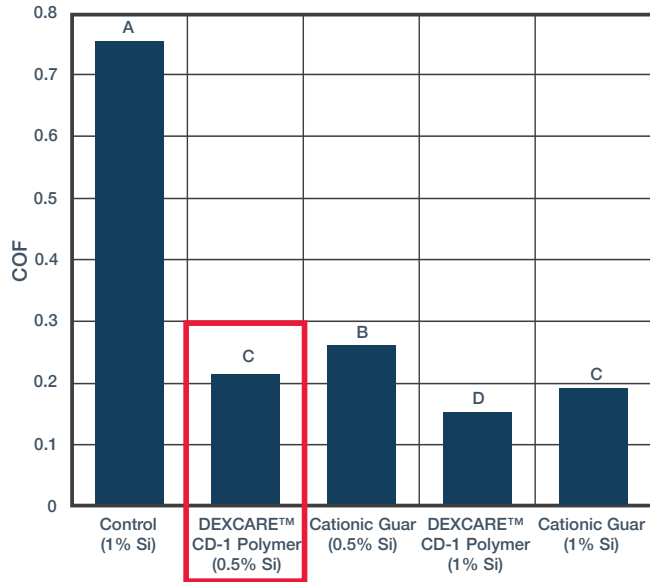
IECIC: Inventory of Existing Cosmetic Ingredients in China

IECSC: Inventory of Existing Chemical Substances in China

‡New chemical notification has been approved by authority. All activities of this product shall comply with China new chemical regulation.

Reduced friction and enhanced combability

Comparison with Cationic Guar at two silicone use levels



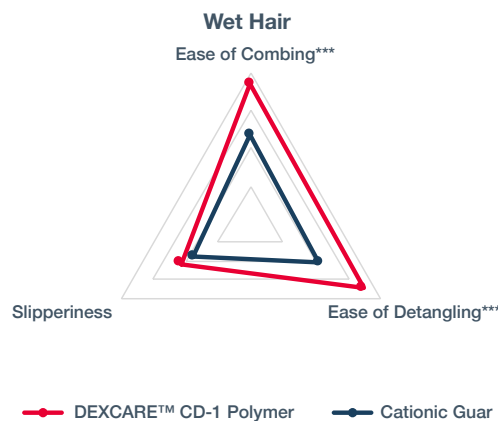
Statistics: Different letters show a statistical difference at 95% confidence.

DEXCARE™ CD-1 Polymer provides similar friction and enhanced combing using **half the silicone level** as cationic guar.

Sensory panel studies

DEXCARE™ CD-1 Polymer provides better ease of combing and ease of detangling on wet hair with **half the silicone level** compared to Cationic Guar.

DEXCARE™ CD-1 Polymer provides better ease of combing on dry hair with **half the silicone level** as Cationic Guar.



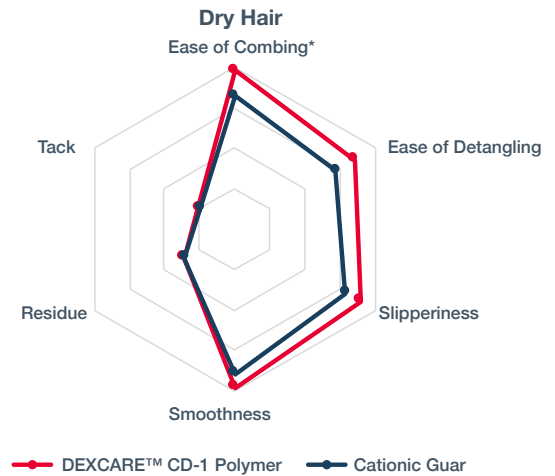
Treatment: 0.4 g / g hair virgin brown hair

- 0.3% active DEXCARE™ CD-1 Polymer with 0.5% silicone active
- 0.3% Cationic Guar with 1% silicone active

Sensory Panel #
Participants: 18

Wet Hair Statistics:

- Ease of detangling and ease of combing: attributes between treatments were statistically different with *** ≥99.9% confidence
- Slipperiness: no statistical differences between treatments



Dry Hair Statistics:

- Ease of detangling and ease of combing: attributes between treatments were statistically different with *** ≥95% confidence
- Remaining attributes had no statistical differences between treatments

Learn more

For more information about DEXCARE™ CD-1 Polymer, such as prototype formulations, please contact your customer service representative or visit [dow.com/virtual/beautyexperience](https://www.dow.com/virtual/beautyexperience).

Images: 66823284438

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

®TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

© 2022 The Dow Chemical Company. All rights reserved

AMPM-22BBC409

Form No. 27-3447-01-1022 AMPM