

DEXCARE™ CD-2 Polymer

Achieve your formulations' full conditioning power with a dual-action bio-fermented polymer for ultimate hair care



Elevate your hair care formulations with [DEXCARE™ CD-2 Polymer](#), a low-viscosity, dual-cationic dextran designed to revolutionize the way you approach hair conditioning and treatment. This polymer is a sustainable deposition aid and should be used in combination with benefit agents such as silicones or natural oils. It also offers standalone conditioning in rinse-off and leave-on conditioners without silicone. 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.



Product overview

INCI	Dextran Hydroxypropyltrimonium/Laurdimonium Chloride
Bio-based carbon content (%)	81
Origin	Fermented, sugarcane
Biodegradability	Inherent, ultimate*
China regulatory status	Not listed in the IECIC, nor in the IECSC
Product form	27% active in water
Viscosity (cP)	<6000
Solubility in water	Soluble
pH and pH stability	5-7 and stable between 3-11
Recommended active use level (%)	For deposition: 0.15-0.5 For conditioning: 0.15-1.0 For body wash: 0.15-1.0
Temperature	Can be processed cold or hot, up to 80°C
% Nitrogen (on active)	1.20-1.60
Shelf life	3 years
Preservative	No preservative
Recommended applications	Rinse-off: shampoo, conditioner, body wash Leave-on: conditioner

Consumer benefits

For shampoos:

- Enhanced dry and wet combing
- Enhanced foam boosting and quality
- Reduction in friction

For rinse-off/ leave-on conditioning:

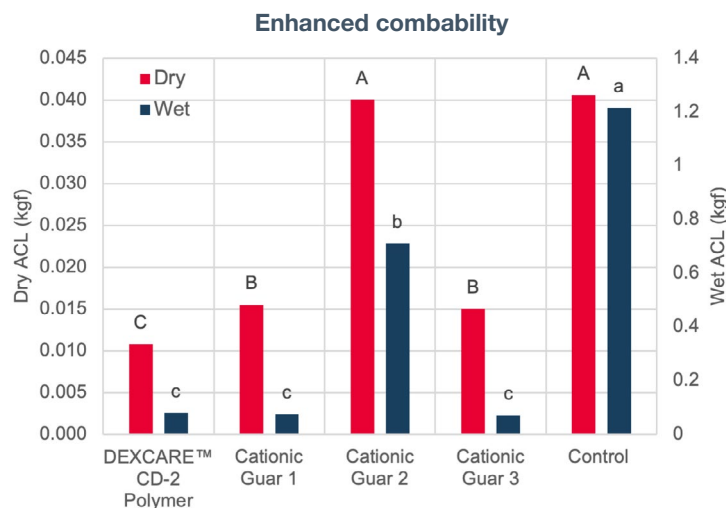
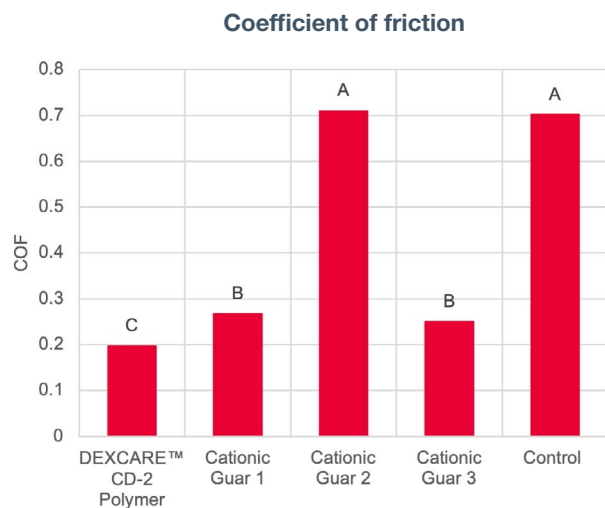
- Enhanced dry and wet combing
- Restored hydrophobicity
- Improved hair alignment, frizz control
- Reduced hair breakage

Formulator benefits

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

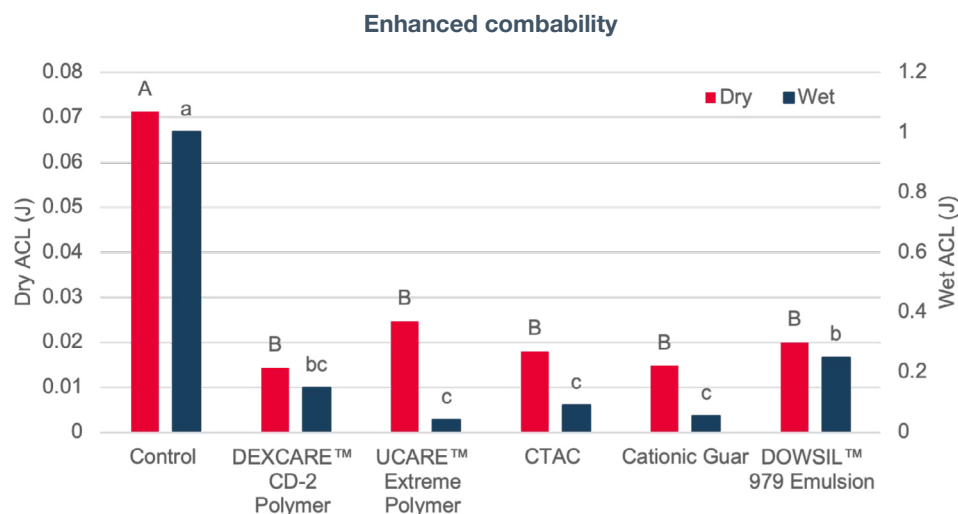
Deposition performance in shampoos - reduced friction and enhanced combability

Comparison against a variety of cationic guar



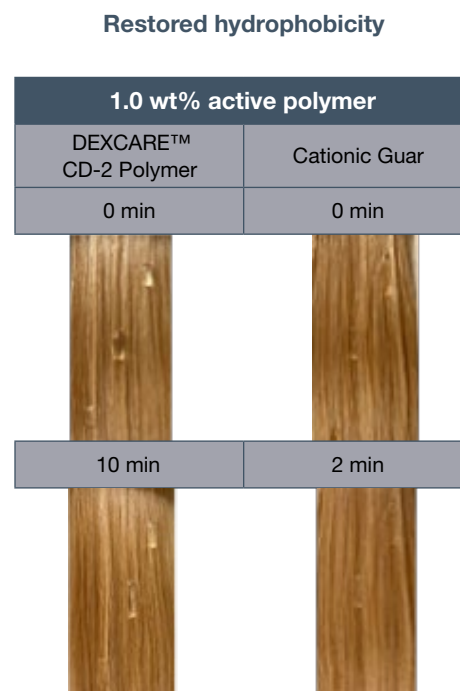
DEXCARE™ CD-2 Polymer offers reduced friction, enhanced dry combing, and equivalent wet combing compared to a variety of cationic guar when depositing 1% active silicone onto damaged hair.

Standalone conditioning – Rinse-off conditioner



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

DEXCARE™ CD-2 Polymer offers equivalent dry comb and similar wet comb performance on damaged hair compared to a variety of conditioning agents. It retains a high degree of hydrophobicity compared to cationic guar, increasing its hydrophobicity performance with increased active levels up to 1%.



Learn more

For more information about DEXCARE™ CD-2 Polymer, such as prototype formulations, please contact your customer service representative or visit dow.com/personalcare.

Images: dow_60167670570, dow_91204045919

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