

## Biosil Basics® Amino DL-30 CE

Tests conducted by TRI Princeton

### Ingredient Information

INCI Name: Dimethiconol Panthenol  
 CAS# 659720-06-6  
 EINECS# Polymer Exempt  
 Japan Code# 520396 & 500338  
 Japan Nomenclature: Highly Polymerized Methyl Polysiloxane (1) & D-Pantothenyl Alcohol

### Specifications

Appearance	Milky Liquid
pH (as is)	5.00 – 8.00
Solids	30 – 32%
Preservative	Ethylhexylglycerin & Caprylyl Glycol

### Attributes

- Color protection
- Excellent conditioning
- Provides anti-breakage benefit
- Enhances shine

### Applications

- Hair care

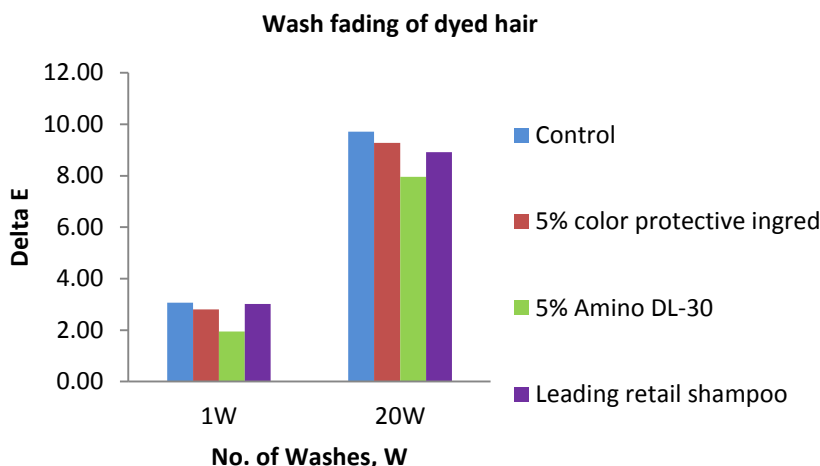
Recommended use levels 0.50 – 5.00%

**Biosil Basics® Amino DL-30 CE** is the paraben and phenoxyethanol free version of our original amine functional silicone, **Biosil Basics® Amino DL-30**, which is complexed with pro vitamin B5 also known as panthenol. Panthenol is a humectant, emollient and moisturizer. It spreads evenly on the surface of hair strands, forming a smooth film on the surface of the cuticle. The smooth film provides excellent slip between adjacent strands of hair and detangling properties. Panthenol is capable of penetrating the cuticle and entering the hair shaft as well where it aids in moisture retention and provides volume. **Biosil Basics® Amino DL-30 CE** is able to polymerize and has excellent protective properties for color treated hair.

### Color Protection (Patent Pending)

The objective of this study was to evaluate the color fastness efficacy of some shampoos including color protective ingredients in comparison to a control base shampoo as well as a leading retail brand of shampoo claiming color protective attributes.

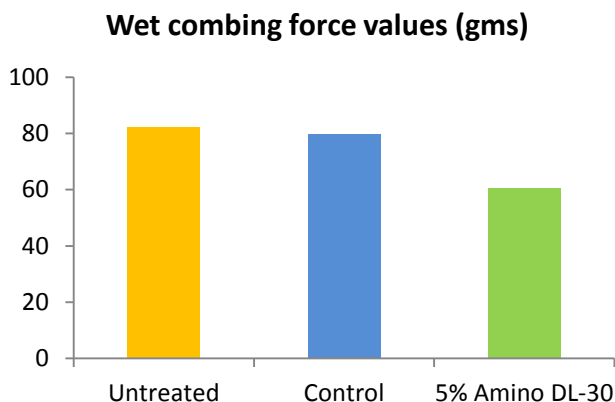
The graph below illustrates that **the addition of Biosil Basics® Amino DL-30 can provide significant color protection benefits in shampoo systems.**



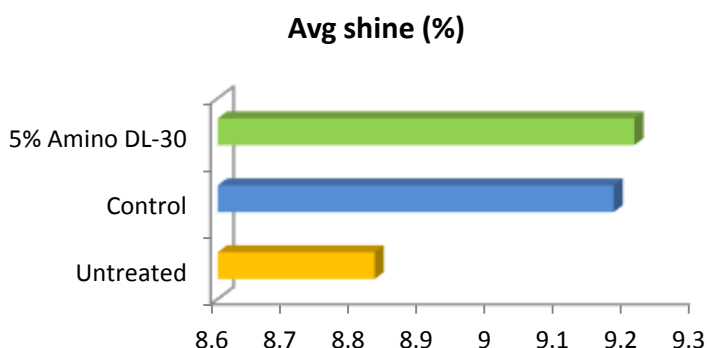
The objective of the studies below was to evaluate shampoos using wet combing test, repeat combing test and shine measurement. The control shampoo contained no conditioning agent while **the test shampoo contained 5% Biosil Basics® Amino DL-30** in the same base formulation.

### Wet Combing

Results show the **beneficial effect in wet manageability for the shampoo with 5% Biosil Basics® Amino DL-30 is significantly better** than the untreated and common control.



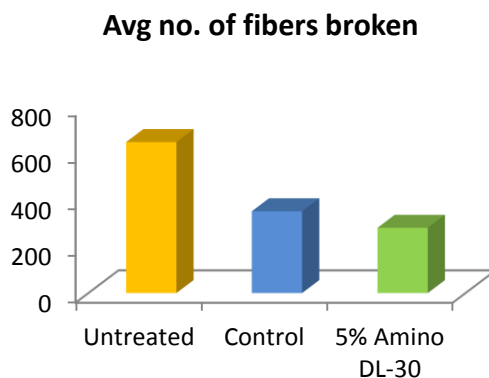
### Shine Measurement



**Increases in shine values result from the active in the shampoo with 5% Biosil Basics® Amino DL-30** beneficially improving the surface for better optical response.

### Repeat Combing

Results show **the shampoo with 5% Biosil Basics® Amino DL-30 had significantly less broken fibers**. It is 2.3x better than untreated and 1.25x better than the control shampoo.



### Storage and Handling

Before handling please read the Safety Data Sheet and container label for safe use, physical and health hazard information. Material must be shaken well prior to use and should not be exposed to freezing conditions.

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