



Sensory Creations for Hair Care

Clarify, Condition, Protect, and Control


Alzo International Inc
Where Chemistry is Artistry

Clarify, Condition and Protect

Vegetable derived specialties which deliver unique and beneficial features to treated and untreated hair.

A Natural Surfactant in An Unnatural Form

Easy-to-Use Clear Liquid

Dermol SLLC-L

INCI Name:

Sodium Lauroyl Lactylate

- 100% solids
- biodegradable
- globally compliant
- surfactant and oil in water emulsifier
- foam booster for sulfate free systems

Color Protection Shampoo

Dermol SLLC-L
mild, natural surfactant and foam booster that does not strip color

Alzo's Sulfate Free Shampoo
provides gentle cleaning and conditioning while leaving color intact after 10 washings



hair washed 10 times with Alzo's Sulfate Free Shampoo

unwashed dyed hair with dark auburn color

hair washed 10 times with sulfate shampoo

untreated gray hair



shampoo with Dermol SLLC-L immediately after shaking



shampoo with Dermol SLLC-L 1 hour after shaking

Innovative Cationic Compounds

Amino Functional Moisturizers and Coatings

Necon LO-80

INCI Name:

Linoleamidopropyl Dimethyl Amine Dimer Dilinoleate

Polyderm PPI-SA

INCI Name:

Di-PEG-2 Soyamine/IPDI Copolymer

Polyderm PPI-SA-15

INCI Name:

IPDI/PEG-15 Soyamine Copolymer

- naturally derived
- emolliency, lubricity, and sheen
- for rinse off and leave on products

Color Protection Conditioner

Polyderm PPI-SA
provides a superior luster finish
Polyderm PPI-SA-15
water soluble cationic conditioning and emolliency

Alzo's Color Protection Conditioner
when compared to a leading national brand gives comparable or slightly better color protection after 20 shampoos



yak belly hair

control no shampoo

Care supreme conditioner after 20 washings

CM-1-90 color protection conditioner after 20 washings

Enhanced Deposition with Polyderm



Control (0%)



Polyquaternium 10 (1%)



Behentrimonium Methosulfate (1%)



Polyderm PPI-SA (1%)

Procedure:

- wool patches shampooed for 1 minute with test product and 2.0 grams of water
- rinsed for 1 minute at 40°C
- treated with 0.0125% solution of FD&C Blue 1 and 0.0046% HCl for 1 minute
- rinsed until rinse water was colorless

Superior Conditioning and So Much More

Amino Salt Quaternary Complex

Nequat DBS

INCI Name:
Stearyl Alcohol
(and)
Behenamidopropyl
Ethylidimonium
Ethosulfate
(and)
Dimethyl
Palmitamine (and)
Dilinoleic Acid

- locks in hair color dyes
- preferred over other behenyl conditioners
- deeper color intensity
- leaves hair feeling soft

Vibrant Semi Permanent Hair Color Creme

Nequat DBS
 exceptional hair softening, wet combing and detangling

Alzo's Vibrant Semi Permanent Hair Color
 when compared to a leading brand gives more intense and lasting color even after multiple washings



national brand blue dye

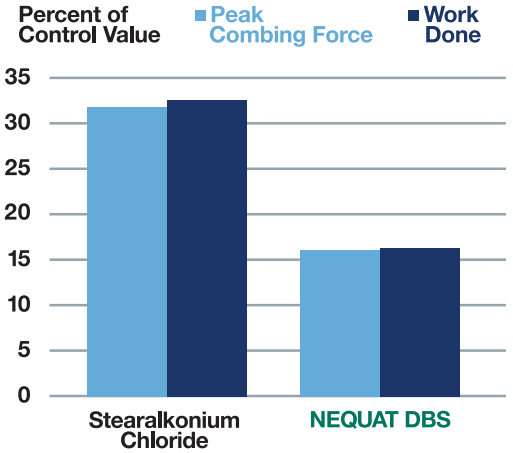
Nequat DBS formula blue dye

national brand red dye

Nequat DBS formula red dye

Dia-Stron testing confirms NEQUAT DBS "out combs" the leading Stearyl Quat

Reduction in Wet Combing Forces and Work Done



Polymeric Viscosity Control

Polyurethane thickeners, rheology modifiers, and gelling agents which provide unique textures with self-leveling properties and pH stability from 2-12.

For Aqueous Systems

Demothix™ 100

INCI Name:
Disteareth 100 IPDI

- 100% active
- water soluble flake
- forms clear stable gels
- alternative to shear thinning conventional thickeners



6% hydrogen peroxide and 5% Demothix™ 100
 pH 4; 13,200 cP

1% sodium hydroxide and 5% Demothix™ 100
 pH 12; 14,400 cP



10% Demothix™ 100 in water immediately upon penetration



within 15 seconds self levels to a smooth surface

Demothix™/Carbopol Rheology Comparison

Demothix™ 100

- Newtonian liquid
- solid like when sheared
- liquid when at rest
- zero shear viscosity

- self leveling; flows into wrinkles
- unique rheological texture and sensory experience

Carbopol

- polymer gel
- good yield value for suspending particles
- shear thinning

- non thixotropic
- traditional rheological sensory experience

Polymeric Viscosity Control

For Surfactant Systems

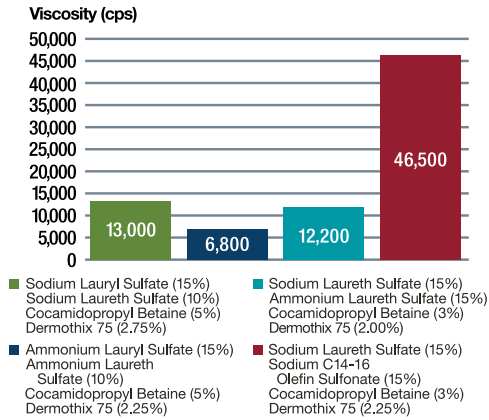
Dermothix™ 75

INCI Name:

Disteareth 75 IPDI

- 100% active
- water dispersible flake
- forms clear solutions
- salt tolerant
- soluble in anionics, non-ionics, and cationics

Thickening Effects of DERMOTHIX™ 75 on Common Shampoo Systems



For Low Temperature Systems

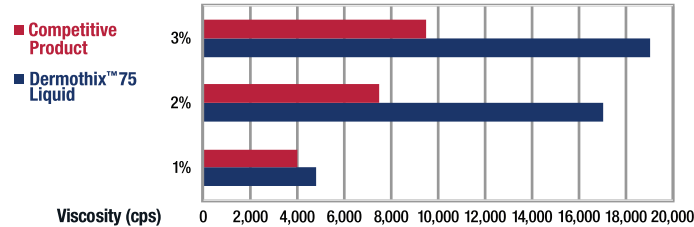
Dermothix 75™ Liquid

INCI name:

Disteareth 75 IPDI (and) Glycereth-7 Caprylate/ Caprate (and) Water

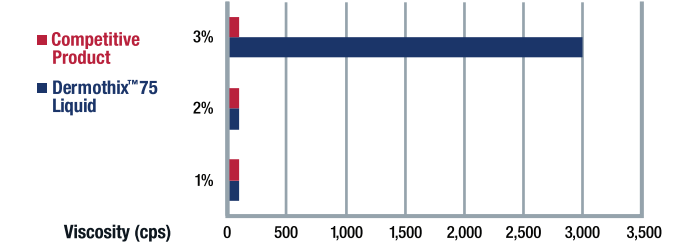
- able to be post added to formulations
- increases product's final viscosity
- reduces need for high level of cocamidopropyl betaine
- out performs leading liquid rheology modifier

Sulfate Free Surfactant Blend



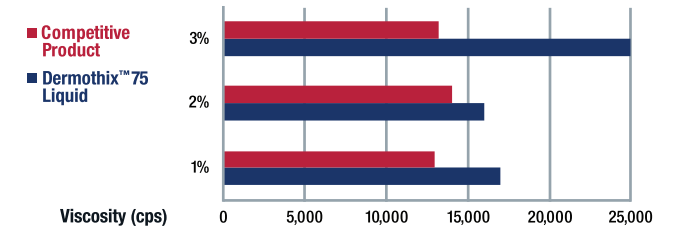
Silly Stringy Springy Jelly Putty

Ammonium Lauryl Sulfate Surfactant Blend



produces gentle and rich foaming

Cocoyl Taurate Surfactant Blend



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