

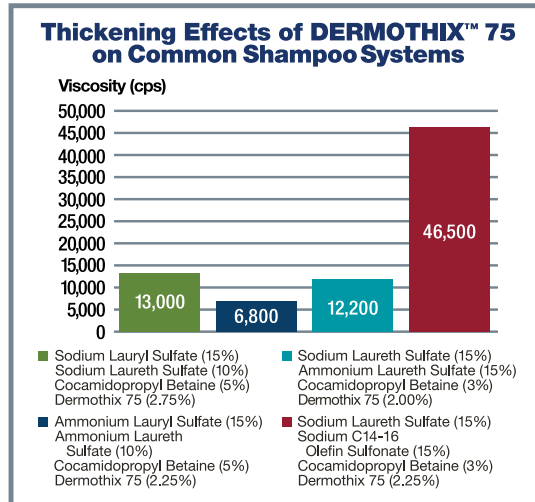
Polymeric Viscosity Control

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

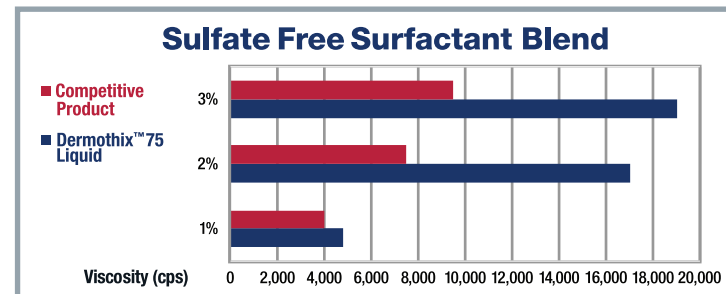


For Low Temperature Systems

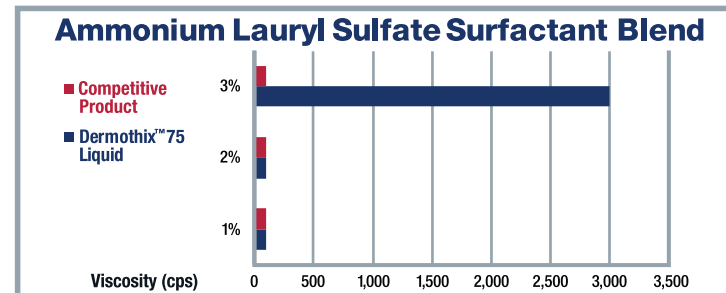
Dermothix 75™ Liquid

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

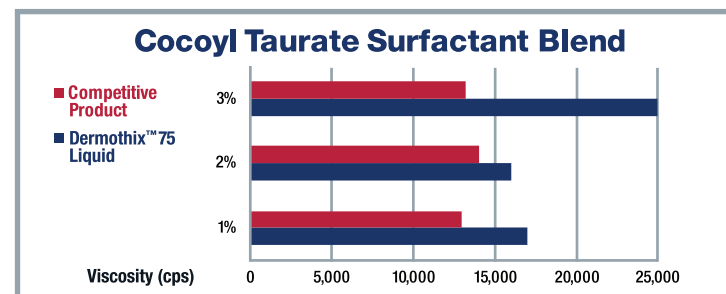
- able to be post added to formulations
- increases product's final viscosity
- reduces need for high level of cocamidopropyl betaine
- out performs leading liquid rheology modifier



Silly Stringy Springy Jelly Putty



produces gentle and rich foaming



Sensory Creations for Hair Care

Clarify, Condition, Protect, and Control


Alzo International Inc
Where Chemistry is Artistry

650 Jernee Mill Rd, Sayreville, NJ 08872 USA ■ Phone: (732) 254-1901 ■ Fax: (732) 254-4423 ■ E-Mail: info@alzousa.com ■ Website: www.alzointernational.com


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 containing 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 Ethyldimonium 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

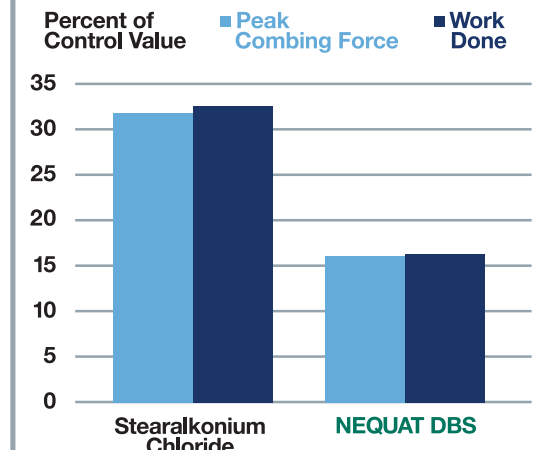
Alzo's Vibrant Semi Permanent Hair Color
when compared to a leading brand gives more intense and lasting color even after multiple washings



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

Dermothix™ 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% Dermothix™ 100 pH 4; 13,200 cP

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

Dermothix™/ Carbopol Rheology Comparison

Dermothix™ 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



10% Dermothix™ 100 in water immediately upon penetration

within 15 seconds self levels to a smooth surface