

NEQUAT™ DBS

Outstanding Conditioning with a Competitive Advantage

INCI Name: Stearyl Alcohol, lauryl Stearamide, propyl Ethylhexanoate, Ethylhexyl Stearate, (and) Dimethyl Lysazirine, lauryl Dimethyl Acrylate

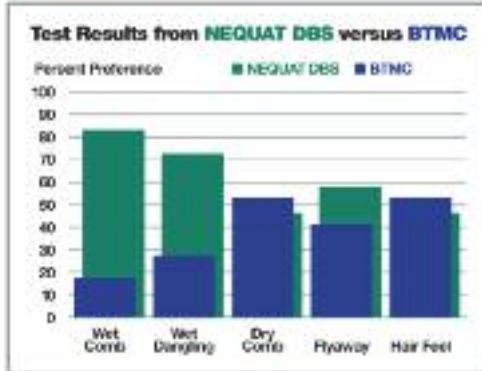
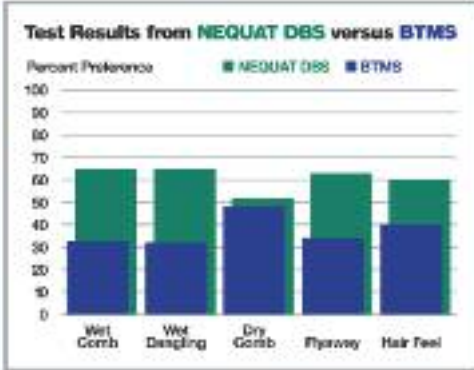
Features:

- Amine sulfate complex
- Non-volatile
- Substantive to hair and skin
- Solid flake form
- Exceptionally mild
- Broad pH stability
- Self-emulsifying
- Versatile emulsifier
- Vegetable derived

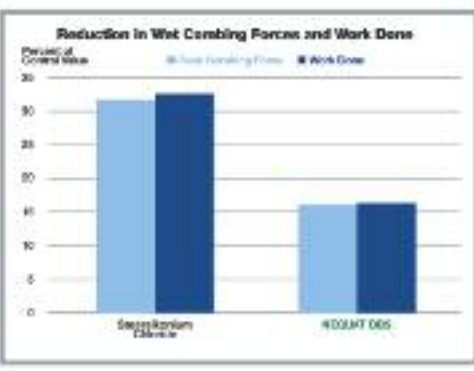
Applications:

- Hair Conditioners
- Hair Color
- Detanglers
- Creams and Lotions
- Shampoos
- Bath and Shower

Consumer Panels told us NEQUAT DBS outperforms Behenyl Quats



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



What This All Means for Your Products

- **NEQUAT DBS** leaves the hair with a silky smooth and velvety feel
- **NEQUAT DBS** provides exceptional wet combing, detangling and static control
- **NEQUAT DBS** is an effective cationic emulsifier that creates luxurious creams and lotions
- **NEQUAT DBS** is ideal for both leave-on and rinse-off products
- **NEQUAT DBS** adds unique softness to bleached or damaged hair
- **NEQUAT DBS** is "unconditionally" an excellent choice for all your conditioning needs

Typical Properties/Results for **NEQUAT™ DBS**

• Appearance @25°C	Soft flakes/chunks
• Color	Cream
• Odor	Characteristic, Ammoniacal
• Acid Value, mg KOH/g	25
• Alkali Value, mg KOH/g	25
• Non-Volatile %1	00
• Activity %	35
• Ionic Nature	Cationic
• Melting Point, °C	56
• pH @25°C	5.5
(10% Soln. in 10%IPA,90%H2O)	

SOLUBILITY: Soluble in alcohols, glycols, glycol ethers, mineral and vegetable oils, glycerol and polyols and in some hydrophobic solvents such as fatty alcohols, esters, aliphatic aromatic and chlorinated hydrocarbons. Dispersible in silicones and water.



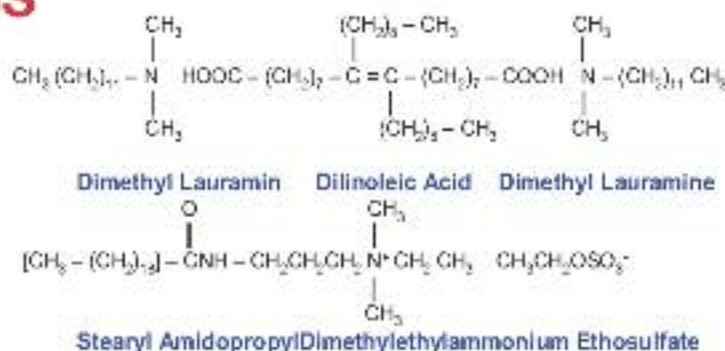
Daily DBS Conditioner ps4-084

Product Name	INCI	W/W%	Supplier
RO Water	Aqua	89.55	
Part A			
Nequat DBS	Stearyl Alcohol (&) Stearamidopropyl Ethyldimonium Ethosulfate (& Dimethyl Lauramine (& Dilinoleic Acid)	5.75	ALZO
Cetyl Alcohol	Cetyl Alcohol	3.00	ALZO
DC 200 Fluid (1000 cat)	Dimethicone	1.00Dow	Corning
Fragrance		0.50	
Microcare MTI	Methylisothiazolinone (&) Iodopropynyl butylcarbamate	0.20	ACTI-chem

Manufacturing Procedure

- Into a vessel suitable for making creams and lotions add water and begin heating the batch to T=85°C w/ agitation.
- In a separate vessel combine Part A ingredients. Heat to 80°C w/mixing.
- When Part A becomes clear and reaches 80°C add it to the main batch and mix for 10 min. Homogenize for 3 minutes @ 2000 -4000 rpm if needed.
- Begin cooling the batch.
- At 85°C add DC 200 Fluid and homogenize for 3 minutes @ 2000 -4000 rpm.
- At 45°C add Microcare+Fragrance and mix until homogenous.

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Cationic Cream ps4-051

Product Name	INCI	W/W%	Supplier
RO Water	Aqua	78.20	
Glycerin	Glycerin	7.66	ALZO
Part A			
Nequat DBS	Stearyl Alcohol (&) Stearamidopropyl Ethyldimonium Ethosulfate (& Dimethyl Lauramine (& Dilinoleic Acid)	4.75	ALZO
Pinnacle 225	Petrolatum	4.55	Avatar
Dermol 1PP	Isopropyl Palmitate	4.25	ALZO
DC200 Fluid (1000 cat)	Dimethicone	0.40	Dow Corning
Microcare MTI	Methylisothiazolinone (&) Iodopropynyl butylcarbamate	0.20	ACTI-chem
		Total 100.00	

Manufacturing Procedure

- Into a vessel suitable for making creams and lotions add water+Glycerin and begin heating the batch to T=80°C w/agitation.
- In a separate vessel combine Part A ingredients. Heat to 80°C w/mixing.
- When Part A becomes clear and reaches 80°C add it to the main batch and mix for 20 min. maintaining the temperature.
- Add Dimethicone at 70°C and homogenize for 4 min. @ 30
- At 45°C add Microcare and mix until homogenous.

