

NuLastic™ Surf

Innovative Silicone Elastomers

Water and Water Soluble Ingredients
Entrapment and Delivery

■ NuLastic SURFA D99

INCI Name:

Isononyl Isononanoate (and) Bis-Vinyldimethicone /
PEG-10 Dimethicone Crosspolymer

■ NuLastic SURFA ID

INCI Name:

Isododecane (and) Bis-Vinyldimethicone /
PEG-10 Dimethicone Crosspolymer

■ NuLastic SURFA DM

INCI Name:

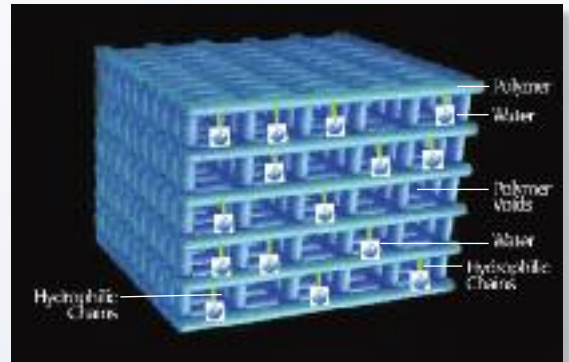
Dimethicone (and) Bis-Vinyldimethicone /
PEG-10 Dimethicone Crosspolymer

PROPERTIES

- divinyl dimethicone crosspolymers swollen in cosmetic solvents
- grafted hydrophilic chains
- volatile and non-volatile carriers
- optimum mw results in maximum voids for actives loading
- accelerated hydrophilic transport
- w/o emulsification
- elegant skin feel
- typical water absorption is 30% at 6% polymer content



SURF "SCAFFOLD" STRUCTURE



ACTIVES ENTRAPMENT



30% hydrogenated
polyisobutene in
SILK ID-6

30% hydrophilic
mixture in
SURFA ID-6

APPLICATIONS

- Make-Up
- Lipstick & Lip Glosses
- Facial Care
- Body Care
- Sun Care
- Shave Care
- Hair Care
- Fragrances

NuLastic™ SURF Formulary

NuLastic™ SURFA Lipstick jc4-8

Product Name	INCI NAME	W/W%	Supplier
Part A			
NuLastic SURFA D99-9	Isononyl Isononanoate (and) Bis-Vinyldimethicone / PEG-10 Dimethicone Crosspolymer	35.00	ALZO
Water, Deionized	Aqua	10.00	
Glycerin	Glycerin	10.00	
Methyl Paraben	Methyl Paraben	0.10	
Part B			
Dermol DGDIS	Polyglyceryl-2 Diisostearate	9.00	ALZO
Castor Oil	Castor Oil	5.00	
Color Blend (jc3-273)		12.00	
Performalene PL	Polyethylene	6.00	Baker Petrolite
Permacol 550	C30-50 Alcohols	8.00	Baker Petrolite
SP 89	Microcrystalline Wax	2.00	Strahl & Pitsch
SP 1020	Ozokerite Wax	2.00	Strahl & Pitsch
Part C			
Flavor - Strawberry Icing (D9754 OS)		.40	Carruba
Flavor - Cotton Candy (D9753 OS)		.50	Carruba
TOTAL		100.00	



**WATER SOLUBLE
ACTIVES DELIVERY**



NuLastic™ SURFA Make-up jc3-276

Product Name	INCI NAME	W/W%	Supplier
Part A			
Water, Deionized	Aqua	52.50	
Butylene Glycol	Butylene Glycol	3.00	ALZO
Ceteareth 20	Ceteareth 20	1.00	ALZO
Polyderm PPI-SI-WS	Bis-PEG-15 Dimethicone/IPDI Copolymer	0.50	ALZO
Veegum/Keltrol 2:1	Magnesium Aluminum Silicate/Xanthan Gum	1.80	RT Vanderbilt/ Kelco
Part B			
NuLastic SURFA ID-7	Isododecane (and) Bis-Vinyldimethicone / PEG-10 Dimethicone Crosspolymer	25.00	ALZO
Color Blend jc3-225		15.00	
Cab-O-Sil M5	Silicone Dioxide	1.00	Cabot
Microcare MTI	Methylisothiazolinone (and) Iodopropynyl butylcarbamate	0.20	ACTI-Chem
TOTAL		100.00	

"SURF" EMULSIFYING



NuLastic™ SURFA W/O/W Emulsion jc3-268

Product Name	INCI NAME	W/W%	Supplier
Part A			
NuLastic SURFA D99-9	Isononyl Isononanoate (and) Bis-Vinyldimethicone / PEG-10 Dimethicone Crosspolymer	20.00	ALZO
Glycerin	Glycerin	2.00	
Water, Deionized	Aqua	5.00	
Dye	FD & C Blue1 (1% Aqueous Solution)	0.02	
Part B			
Pemulen TR-1	Acrylates/C 10-30 Alkyl Acrylate Crosspolymer	0.20	Noveon
Water, Deionized	Aqua	72.38	
TEA 99	Triethanolamine	0.20	
Microcare MTI	Methylisothiazolinone (and) Iodopropynyl butylcarbamate	0.20	ACTI-Chem
TOTAL		100.00	

ALZO International Inc.
Where Chemistry is Artistry

650 Jernee Mill Road, Sayreville, NJ 08872 USA
Phone: (732) 254-1901 ■ Fax: (732) 254-4423
www.alzointernational.com