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Topical Report : SPF Evaluation of Various Silicone Additives

Objective: To evaluate the effects on SPF of a nominal 15 SPF formulation, by substituting out different silicone compounds.

Experimental Design:

Formulation:

Material	%
Polysurf 67 CF	0.50
Water	49.50
PG	2.00
EDTA	0.40
Silsurf J-208-612	5.00
Octinoxate	7.50
Octocrylene	7.00
Oxybenzone	4.00
Spider ESO	13.50
Silicone	10.00
Propyl paraben	0.20
Methyl Paraben	0.40
	100.00

Consumer Products Testing Co. on Vitro-skin.

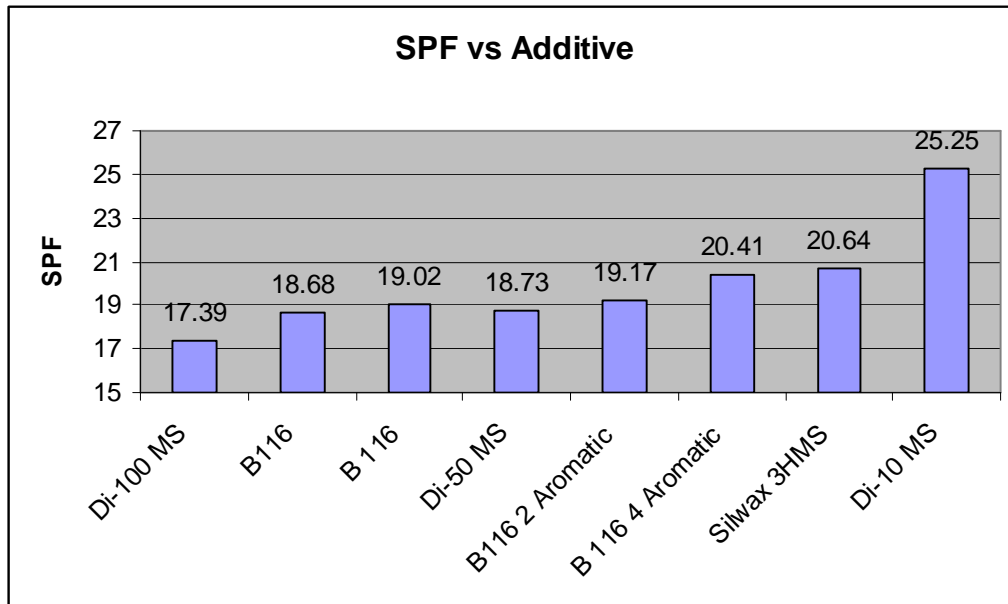


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Results:

	Description	SPF	UVA Ratio	Ave Crit
Sample 1	Di-100 MS	17.39	0.49	361
Sample 2	B116	18.68	0.43	359
Sample 3	B 116	19.02	0.44	360
Sample 4	Di-50 MS	18.73	0.47	361
Sample 5	B116 2 Aromatic	19.17	0.44	359
Sample 6	B 116 All Aromatic	20.41	0.43	360
Sample 7	Silwax 3HMS	20.64	0.45	358
Sample 8	Di-10 MS	25.25	0.52	359

Graphic:





Topical Report : SPF Evaluation of Various Silicone Additives (p.3)

	Description	SPF
Sample 1	Di-100 MS	17.39
Sample 2	B116	18.68
Sample 3	B 116	19.02
Sample 4	Di-50 MS	18.73
Sample 5	B116 (2 Aromatic)	19.17
Sample 6	B 116 (4 Aromatic)	20.41
Sample 7	Silwax 3HMS	20.64
Sample 8	Di-10 MS	25.25

	Description	% Increase
Sample 1	Di-100 MS	0.0
Sample 2	B116	7.4
Sample 3	B 116	9.4
Sample 4	Di-50 MS	7.7
Sample 5	B116 (2 Aromatic)	10.2
Sample 6	B 116 (4 Aromatic)	17.4
Sample 7	Silwax 3HMS	18.7
Sample 8	Di-10 MS	45.2