



## Foam Height

In order to get a feel for the relative foam of Siltech materials, we evaluated them for foam potential. The materials are not intended as primary surfactants, but an understanding of their foaming potential is very helpful in selecting a proper product for a given application.

### Procedure:

All products were evaluated with the same procedure. A 500ml cylinder with 2 ml increments with glass stopper was used. All samples and distilled water was sampled at 25°C. One gram of material was used and distilled water was poured to the 100ml line. The cylinder was then shaken in the left and right motion, back and forth, 20 times total, 10 shakes to the left and 10 shakes to the right. Each material had an “Initial” reading and then a “2 minute” reading and their Foam Heights were documented. Each material was evaluated three times and their averages were then calculated.

The scale for Foam Heights is 500ml is outstanding and 100ml is very poor. The type of foam was also noted, whether loose or tight.

	<b>Product</b>	<b>Initial</b>	<b>2 minute</b>
	Silsurf D-212-CG	240	230
	Silsurf J-208	235	212
	Silube CS-1	225	217
	Silplex J-2B	225	213
	Silsurf J-208-212	222	127
	Silquat J-208-1B	208	183
	Silwax WD-IS	175	156
Control	CAB	500	500



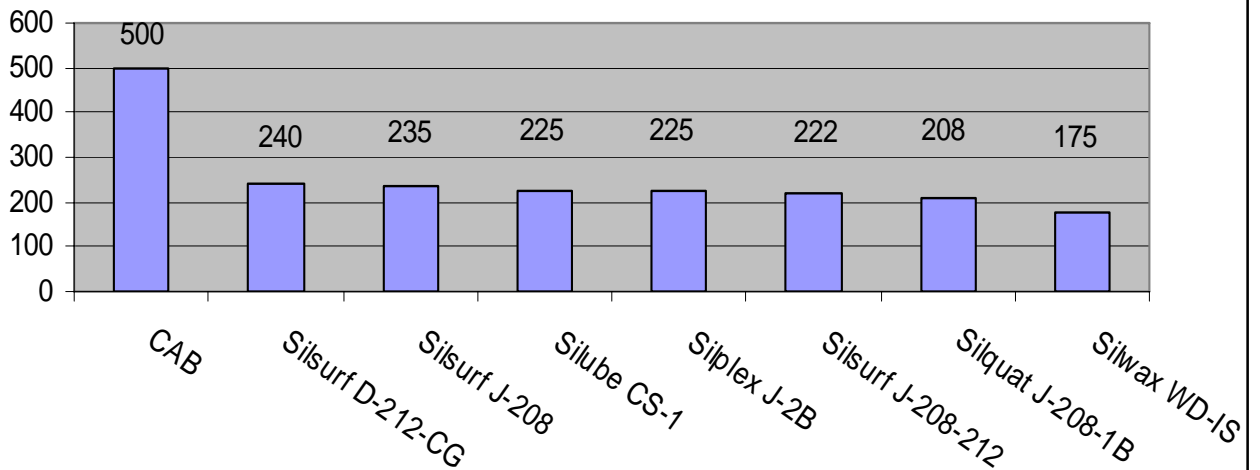
Siltech Personal Care  
 678 442 0210  
[www.siltechpersonalcare.com](http://www.siltechpersonalcare.com)



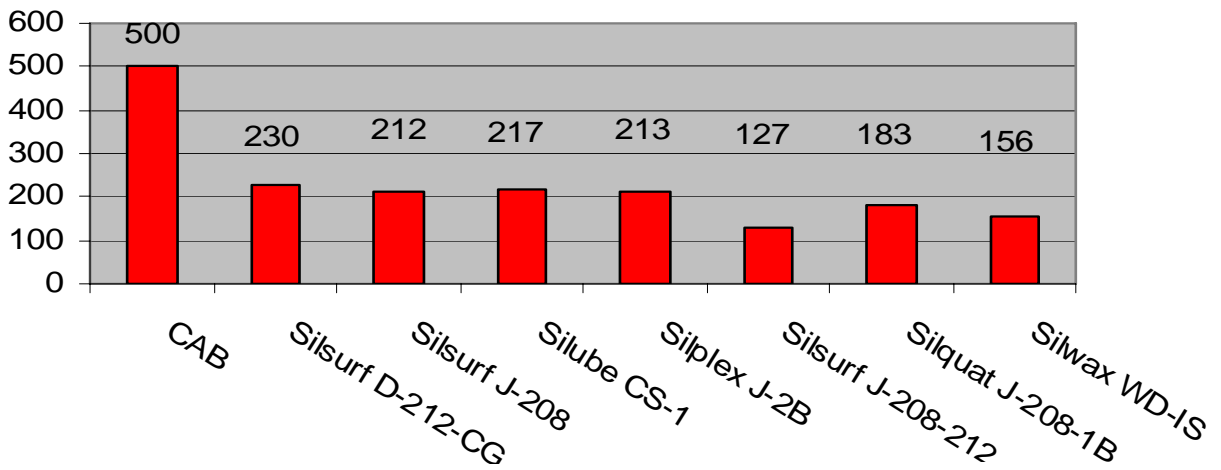
INNOVATIVE SILICONE SPECIALTIES



### Initial Foam Data 1% Active



### 2 Minute Foam



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**PEG/PPG DIMETHICONE**

**Foam Height for Silsurf D-212-CG**

Initial Reading		Two Minute Reading	
250ml	tight foam	245ml	tight foam
235ml	tight foam	225ml	tight foam
235ml	tight foam	235ml	tight foam
<b>Average: 240ml</b>		<b>Average: 235ml</b>	

**Foam Height for Silsurf J-208**

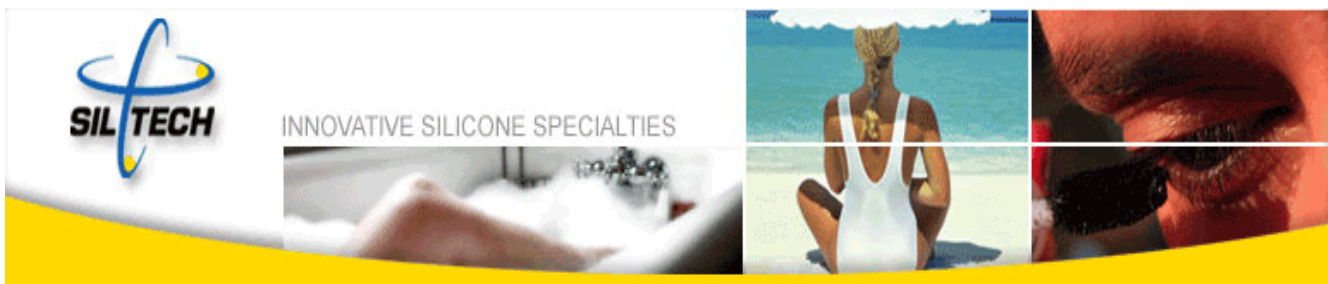
Initial Reading		Two Minute Reading	
230ml	tight foam	200ml	loose foam
230ml	tight foam	210ml	loose foam
245ml	tight foam	225ml	loose foam
<b>Average: 235ml</b>		<b>Average: 212ml</b>	

**PEG/PPG DIMETHICONE**

**Foam Height for Silwax WD-IS**

Initial Reading		Two Minute Reading	
175ml	slightly looser foam	150ml	loose foam
175ml	slightly looser foam	160ml	loose foam
175ml	slightly looser foam	160ml	loose foam
<b>Average: 175ml</b>		<b>Average: 156ml</b>	





**EMULSIFIERS**

<b>Foam Height for J-208-212</b>	
<b>Initial Reading</b>	<b>Two Minute Reading</b>
225ml slightly loose foam	125ml very loose foam
220ml slightly loose foam	125ml very loose foam
220ml slightly loose foam	130ml very loose foam
<b>Average: 222ml</b>	<b>Average: 127ml</b>

**ANIONIC SILICONES**

<b>Foam Height for Silube CS-1</b>	
<b>Initial Reading</b>	<b>Two Minute Reading</b>
225ml tight foam	225ml tight foam
225ml tight foam	200ml tight foam
225ml tight foam	225ml tight foam
<b>Average: 225ml</b>	<b>Average: 217ml</b>

**CATIONIC SILICONES**

<b>Foam Height for Silquat J-208-1B</b>	
<b>Initial Reading</b>	<b>Two Minute Reading</b>
225ml tight foam	200ml tight foam
200ml tight foam	175ml slightly looser foam
200ml tight foam	175ml slightly looser foam
<b>Average: 208ml</b>	<b>Average: 183ml</b>

**HAIR CONDITIONING**

<b>Foam Height for Silplex J2-S</b>	
<b>Initial Reading</b>	<b>Two Minute Reading</b>
225ml very slightly loose	225ml very slightly loose
225ml very slightly loose	215ml very slightly loose
225ml very slightly loose	200ml very slightly loose
<b>Average: 225ml</b>	<b>Average: 213ml</b>



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**Control**

**CAB-Colonial Chemical**

**Foam Height for Cocamidopropyl Betaine**

<b>Initial Reading</b>		<b>Two Minute Reading</b>	
++500ml	very tight foam	500ml	looser foam
++500ml	very tight foam	500ml	looser foam
++500ml	very tight foam	500ml	looser foam
<b>Average: ++500ml</b>		<b>Average: 500ml</b>	



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