The following data details the bouncing of water droplets on various surfaces, 8µL droplets were dropped from a height of 20 mm (dispensing tip to surface). [Surface average' data provides water contact angle and water bouncing averages on each surface type (10 spots for each surface), 'spot testing' uses water droplets bouncing on a point with known water contact angle]

Surface Averages							
CA (°)	σ	No. Bounces	Material	Roughness Type			
5	1.2	0	UV-Irradiated Titania	Flat			
30	2	0	Non-Irradiated Titania	Flat			
45	2.7	0	Glass	Flat			
71	3.3	0	Heat Treated Glass	Flat			
90	1.7	0	Copper Metal	Flat			
95	1.5	0	Flat Sylgard 184 Elastomer	Flat			
99	1.6	0	Flat Dyneon FC-2120 Fluoroelastomer	Flat			
110	2.1	0	AACVD Coating of Dyneon FC-2120 Fluoroelastomer on Glass	Rounded			
129	2.8	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
130	3	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
152	3.3	1.2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
156	2.7	2.5	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
156	3.6	2.5	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
156	2.3	3	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
157	3.2	4	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
161	2.8	5	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
165	2.7	7	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded			
169	1	9	AACVD Coating of Sylgard 184 Elastomer on Elastomer Substrate	Rounded			
171	1.1	12	Thiol-functionalised Copper Hydroxide Nanoneedles	Sharp (Needles)			
172	1.3	12	Fluorinatedthiol-functionalised Copper Hydroxide Nanoneedles	Sharp (Needles)			
175	1.3	12	Trimethylsiloxane Functionalised Silica Microparticles Deposited by Hybrid CVD	Rounded			

Spot Testing			
CA (°)	No. Bounces	Material	Roughness Type
120.3	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
120.8	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
121.5	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
121.9	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
123.2	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
123.3	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
125.7	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
127.3	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
127.4	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
127.6	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
128.8	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
128.8	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
130.7	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
132.4	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
132.6	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
133.6	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
134.7	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
140.2	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
142.0	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
142.3	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
144.0	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
147.4	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
148.5	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
149.6	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
149.7	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
150.4	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
150.8	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.1	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.2	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.3	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.4	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.4	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.4	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.4	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.6	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.7	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.7	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.7	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.8	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.8	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.9	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.9	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
151.9	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.0	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.1	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.1	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.1	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.2	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.3	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.4	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.5	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded

152.8	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
152.8	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.0	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.1	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.2	0	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.3	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.4	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.7	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.8	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.8	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.9	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
153.9	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
154.0	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
154.6	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
154.7	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
155.2	1	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
155.8	2	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
156.0	3	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
156.2	4	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
156.3	5	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded
156.7	4	AACVD Coating of Sylgard 184 Elastomer on Glass	Rounded

PTFE - Spot Testing					
CA (°)	No. Bounces	Material	Roughness Type		
105	0	Flat Polytetrafluoroethylene Substrate	Flat		
125.4	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
128.3	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
139.6	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
143.2	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
146.8	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
149.7	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
151.4	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
152.2	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
153.1	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
153.1	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
154.3	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
155.7	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
156	0	Mechanically Roughened Polytetrafluoroethylene	Sharp		
156.4	1	Mechanically Roughened Polytetrafluoroethylene	Sharp		
157	1	Mechanically Roughened Polytetrafluoroethylene	Sharp		
157.1	2	Mechanically Roughened Polytetrafluoroethylene	Sharp		
157.4	1	Mechanically Roughened Polytetrafluoroethylene	Sharp		
157.9	2	Mechanically Roughened Polytetrafluoroethylene	Sharp		
158.3	2	Mechanically Roughened Polytetrafluoroethylene	Sharp		