Face Cover Efficiency

By Shimon Eliav April 2020

Background Particles Counting

Silence Background							
Measurement	Particle Size			Picture			
#	0.3µm	0.5µm	5.0µm	Picture			
1	550	100	10				
2	170	100	10				
3	90	60	0				
4	140	80	20				
5	150	110	20				
6	740	60	40				
7	80	70	20				
8	350	210	20				
9	740	40	10				
10	460	80	30				
Average	347	91	18				

Talking Loud at 40cm from the Particles Counter (one face cover)

	Talkii	ng Loud	at 40cr	n - One Face Cover		
Measurement	Particle Size			Picture		
#	0.3µm	0.5µm	5.0μm	Ficture		
1	130	80	10			
2	180	80	0			
3	370	70	0			
4	640	90	0	SA THE STATE OF TH		
5	190	80	0			
6	70	20	0			
7	30	20	10			
8	70	40	0			
9	100	30	0	0.5		
10	80	40	0			
Average	186	55	2			

Talking Loud at 20cm from the Particles Counter (one face cover)

	Talki	ng Loud	at 20cr	n - One Face Cover	
Measurement	Particle Size			Dieturo	
#	0.3µm	0.5µm	5.0µm	Picture	
1	70	10	0		
2	280	70	10		
3	90	60	0	Nin San	
4	110	30	0		
5	1160	150	20		
6	260	100	10		
7	110	40	10		
8	90	50	0		
9	650	130	10		
10	930	100	0		
Average	375	74	6		

Talking Loud at 5cm from the Particles Counter (one face cover)

	Talki	ing Loud	d at 5cm	- One Face Cover
Measurement	Particle Size			Picture
#	0.3µm	0.5µm	5.0μm	Picture
1	1670	54	20	
2	3366	1000	20	
3	760	330	0	
4	1600	510	20	
5	1120	530	20	
6	1590	440	30	
7	2070	690	40	
8	3330	610	50	
9	2070	800	40	
10	1100	320	20	
Average	1868	528	26	

Talking Loud at 5cm from the Particles Counter (two face covers)

		300	58/0/97	4.0 400 L0080 M002	
	Talki	ng Loud	at 5cm	- Two Face Covers	
Measurement	Particle Size			Picture	
#	0.3µm	0.5µm	5.0µm	ricture	
1	490	180	0		
2	130	40	0		
3	210	70	0		
4	470	140	20		
5	1370	160	10		
6	340	140	20		
7	910	120	50		
8	40	10	0		
9	260	100	10		
10	300	120	10		
Average	448	108	12		

Summary

Particles Counting Summary									
Particle Size	Silence	One Face Cover			Two Face Covers				
Fai ticle 3ize	Background	40cm	20cm	5cm	5cm				
0.3μm	347	186	375	1868	448				
0.5μm	91	55	74	74	108				
5.0μm	18	2	6	6	12				

Inside the clean room, if we keep at least one meter distance from each other, one face cover is more than enough protection