



## TEST REPORT

REPORT NUMBER: ATT/ELP/22/5650-H  
DATE REPORTED: 09 December 2022  
DATE SAMPLE RECEIVED: 25 November 2022  
DATE ANALYZED: 09 December 2022  
DATE TEST COMPLETED: 09 December 2022

CUSTOMER'S REF NO.:  
COMPANY: Great Utopian Sdn. Bhd.  
No. 3418, Jalan Pekeliling Tanjung 27/1, Kawasan Perindustrian  
Indahpura, 81000, Kulai,

ON BEHALF OF: UltraClean Gloves Sdn Bhd.  
No. 3418, Jalan Pekeliling Tanjung 27/1, Kawasan Perindustrian  
Indahpura, 81000, Kulai,

SAMPLE DESCRIPTION: One lot of sample was received with reference;  
Description: ULTRACLEAN CR100 GLOVES  
LOT NO : UC2211001

### METHOD/PROCEDURE

Filler test method follow Seagate's Doc D0000231080 Rev. F. The samples were cut size 1x1 inch then were carbon coated prior to SEM/EDX analysis. The parameters followed below:

Accelerating Voltage: 15 kV  
Magnification: 110X - 750X  
Working Distance: 10 mm  
Detector: Angle-selective Backscattered Electron (AsB)



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RESULT:

Table 1: Results of filler analysis on sample.

Sample	Area	Frame (1*1 mm)	Particles distribution on sample (particle/frame)				
			SiO	Ca based	Fe based	MgSiO	Other
1	Surface 1	1	0	3	0	0	2
		2	0	2	1	0	2
		3	0	3	3	0	1
2	Surface 2	1	0	17	0	0	4
		2	0	13	1	0	6
		3	0	8	0	0	6
3	Surface 3	1	0	9	0	0	6
		2	0	19	0	0	2
		3	0	12	0	0	3
<b>Total particle</b>			<b>0</b>	<b>86</b>	<b>5</b>	<b>0</b>	<b>32</b>

Terms: Carbon (C), Oxygen (O), Silicon (Si), Calcium (Ca), Iron (Fe) and Magnesium (Mg).

CONCLUSION:

Table 2: The specification is based on Seagate's document no. 35344-001 Rev. AB for Gloves.

Test	Particle Classification	Specification Limits (particles/sq.mm)	Results (particles/sq.mm)	Pass/Fail
Filler Analysis by SEM/EDX	Talc(MgSiO)	<2	0	PASS

Remark:

1. The result related to only the tested sample(s) as indicated in this report.
2. The test report shall not be reproduced except in full, without written approval of ALS Testing Services (Thailand) Co., Ltd.

ALS Testing Services (Thailand) Co., Ltd.

*Warunee*

(Warunee Pusatjapong)  
 M.Sc, B.Sc, Laboratory Manager  
 Approval Signature



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### APPENDIX

Figure 1 and Figure 2 showed the base material and Spectrum by SEM/EDX of sample.

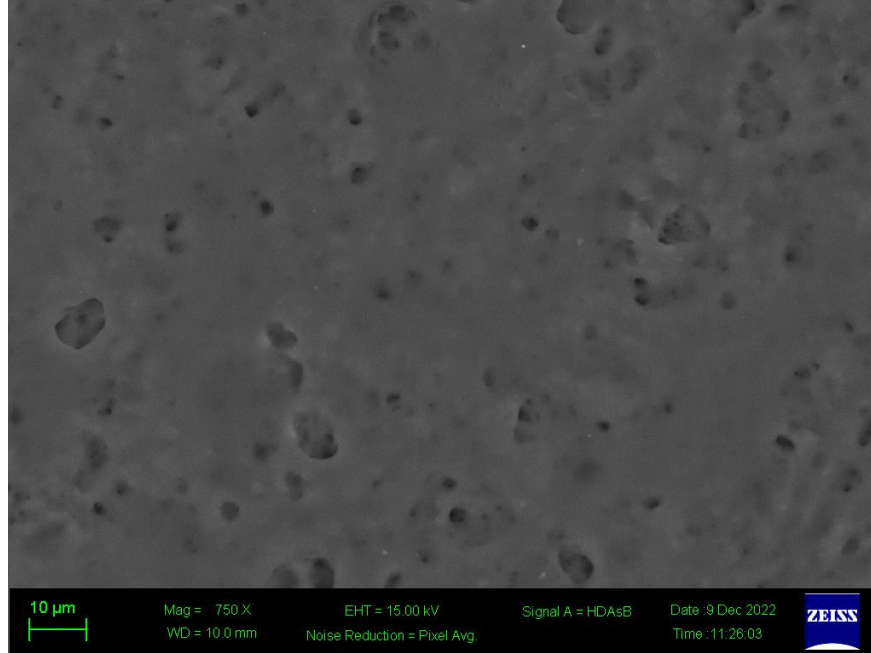


Figure 1: Base material at Magnification 750X.

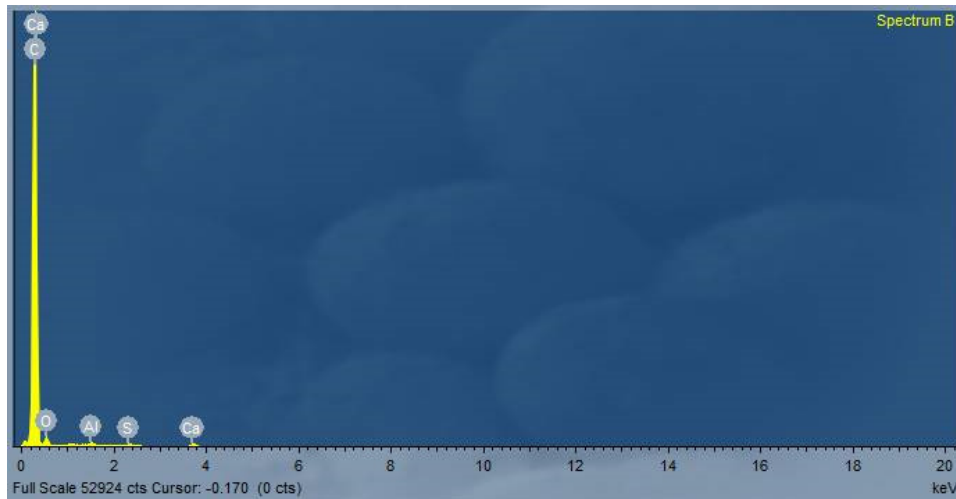


Figure 2: Spectrum of base material.



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Figure 3 and Figure 4 showed the Ca based particle and Spectrum by SEM/EDX of sample on Surface 1.

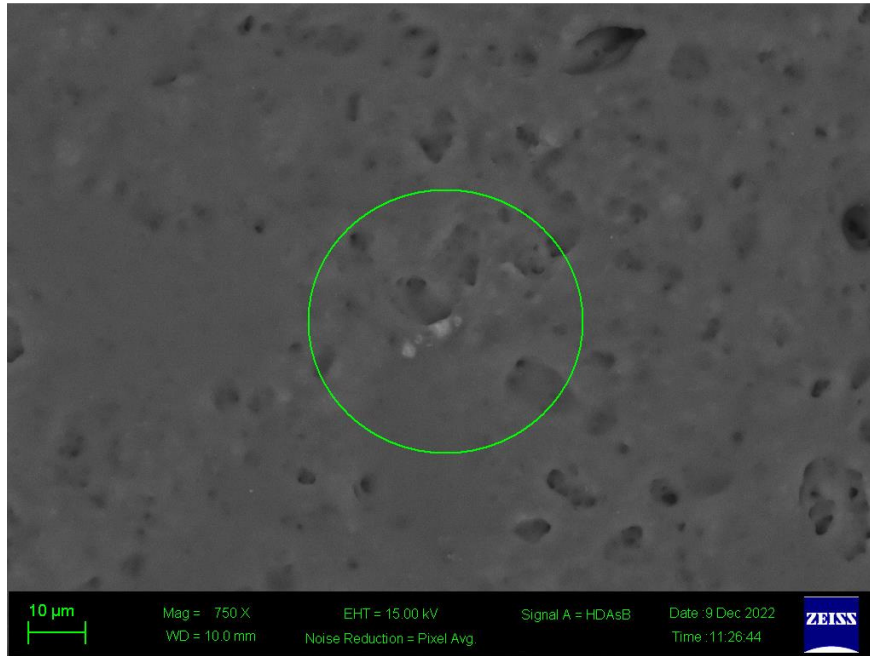


Figure 3: Particle at Magnification 750X.

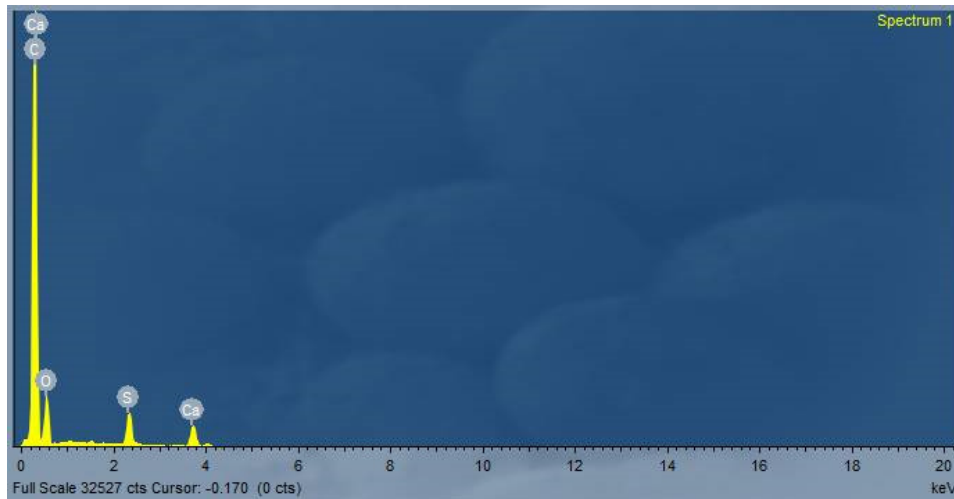


Figure 4: Spectrum of particle.



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Figure 5 and Figure 6 showed the Fe based particle and Spectrum by SEM/EDX of sample on Surface 2.

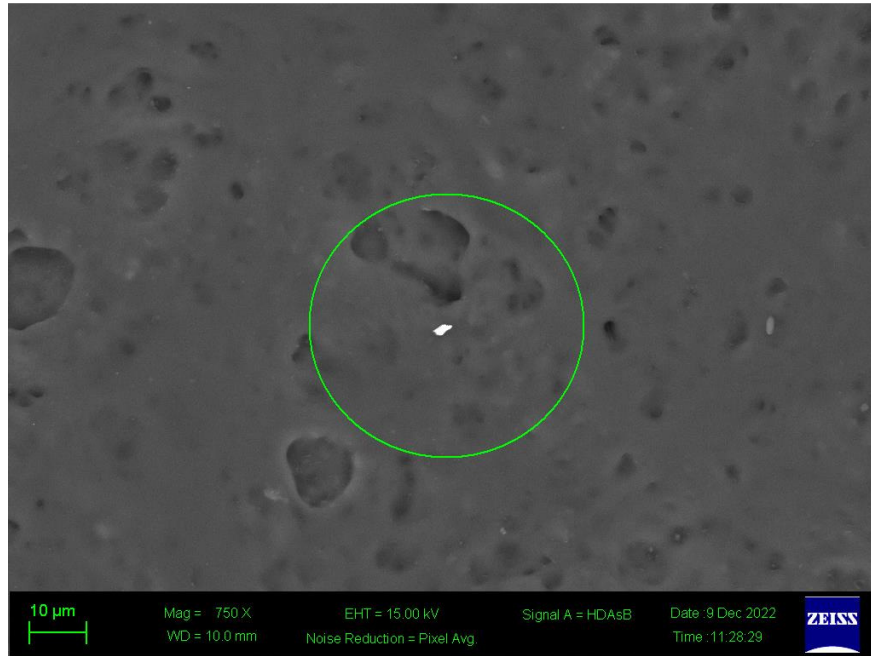


Figure 5: Particle at Magnification 750X.

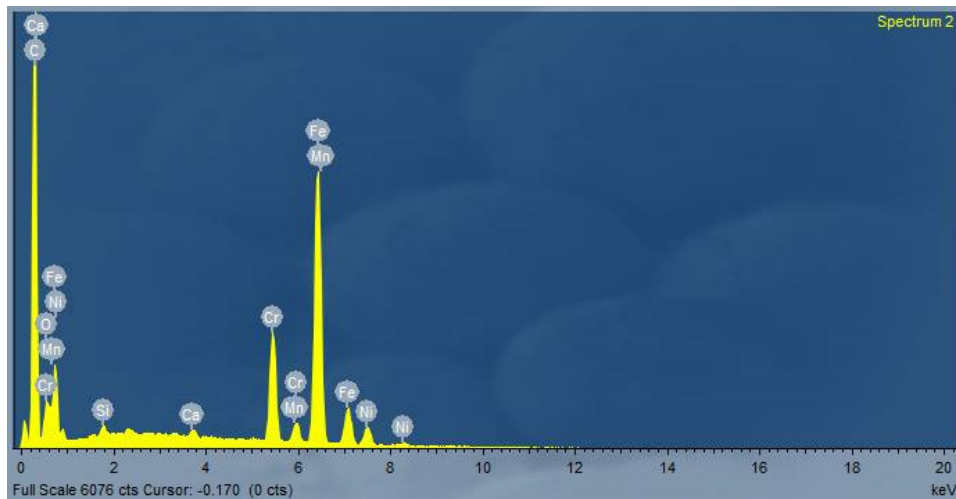


Figure 6: Spectrum of particle.



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Figure 7 and Figure 8 showed the Other particle and Spectrum by SEM/EDX of sample on Surface 3.

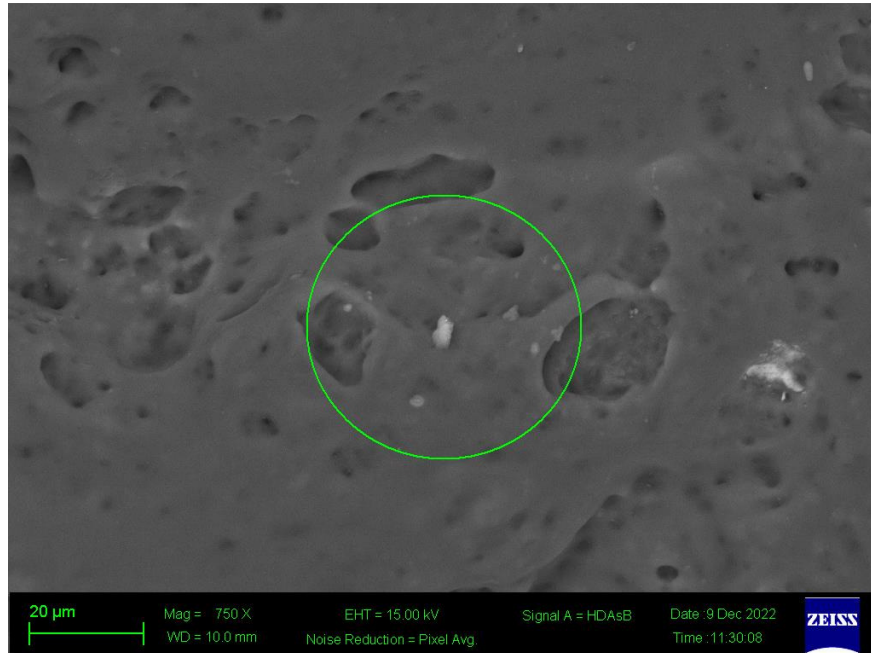


Figure 7: Particle at Magnification 750X.

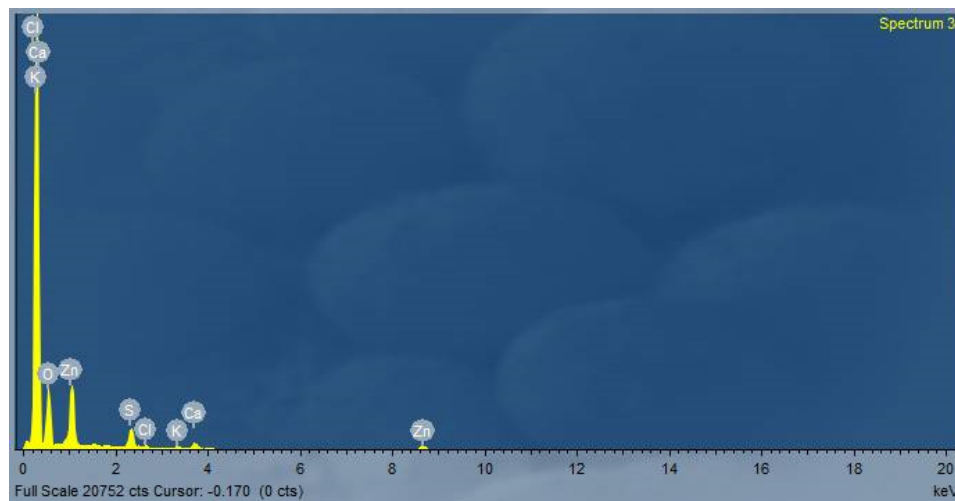


Figure 8: Spectrum of particle.

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