



# Lithium Battery UN 38.3 Test Summary

LITHIUM CELLS OR BATTERIES TEST SUMMARY  
IN ACCORDANCE WITH SUB-SECTION 38.3  
OF UN MANUAL OF TESTS AND CRITERIA

Product Manufacturer: Microsoft Corporation  
One Microsoft Way  
Redmond, WA 98052-6399  
Telephone: 425 882 8080  
Email: [Batteries@microsoft.com](mailto:Batteries@microsoft.com)  
Website: <https://www.microsoft.com/en-us/legal/compliance/batteries>

Models: See Microsoft Product List  
Effective Date: June 1, 2022  
Version: 2022C

This test summary is valid only for Microsoft’s direct supply chain that pertains to the delivery of original devices to initial end users.

Please note: This Test Summary does not apply to any cells or batteries that were used to replace cells or batteries that were originally supplied with Microsoft Devices.

## List of Tests Conducted

All Microsoft product cells and batteries have been successfully tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3.

| Performed Tests |                        | Results |
|-----------------|------------------------|---------|
| 38.3.4.1 T1     | Altitude Simulation    | Pass    |
| 38.3.4.2 T2     | Thermal Test           | Pass    |
| 38.3.4.3 T3     | Vibration              | Pass    |
| 38.3.4.4 T4     | Shock                  | Pass    |
| 38.3.4.5 T5     | External Short Circuit | Pass    |
| 38.3.4.6 T6     | Impact / Crush         | Pass*   |
| 38.3.4.7 T7     | Overcharge             | Pass    |
| 38.3.4.8 T8     | Forced Discharge       | Pass*   |

*\*Applicable to cells only*



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## Test Laboratories

The UN38.3 tests were performed by one of the following test houses and were tested to UN Manual Test and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

| Test House   | Address   | Phone Number      | Email  | Website  |
|--|---|-------------------|--|--|
| CHENG UEI GROUP FU GANG ELECTRONIC (KUNSHAN) CO., LTD.         | No.6 Zhengwei West Road, Jinxi Town, Kunshan City, Jiangsu, 215300 China                                      | +86-51257235288   | <a href="mailto:contactus@foxlink.com">contactus@foxlink.com</a>   | <a href="http://www.foxlink.com/web/en/">www.foxlink.com/web/en/</a>             |
| Dongguan Amperex Technology Limited Test Center                | West Industrial Road 1#, Songsham Lake Industry Park, Dongguan City, Guangdong Province, P. R. China          | +86-0769-88989149 | <a href="mailto:Marketing@ATLBattery.com">Marketing@ATLBattery.com</a>   | <a href="http://www.atlbattery.com">www.atlbattery.com</a>                       |
| DURACELL US Operations Inc.                                    | 14 Research Drive, Bethel CT. 06801 USA   | +1-203-796-4523   | <a href="mailto:UN38.3_Duracell@duracell.com">UN38.3_Duracell@duracell.com</a>   | <a href="http://www.duracell.com">www.duracell.com</a>                           |
| Dynapack Electronic Technology (Suzhou) Co., Ltd               | No. 8 Hua-Gang Road, WuJiang Economical and Technological Development Zone, Suzhou city, JiangSu. PRC. 215200 | +86-051263408688  | <a href="mailto:Wesley.Wu@dynapack.com.tw">Wesley.Wu@dynapack.com.tw</a>   | <a href="http://www.dynapack.com.tw">www.dynapack.com.tw</a>                     |
| Guangzhou MCM Certification and Testing Co., Ltd               | 1 F No. 13, Zhong San Section, Shi Guang Road, Panyu District, Guangzhou City, Guangdong Province, China      | +86-20-34777662   | <a href="mailto:markmiao@mcmtek.com">markmiao@mcmtek.com</a>   | <a href="http://www.mcmtek.com">www.mcmtek.com</a>                               |
| HUAPU TECHNOLOGY / SIMPLO TECHNOLOGY (CHANG SHU) INC.          | No.2 Dong Nan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China            | +86-0512-52302255 | <a href="mailto:suppliers@simplo.com.tw">suppliers@simplo.com.tw</a>   | <a href="http://www.simplo.com.tw">www.simplo.com.tw</a>                         |
| Kunshan Dynapack Electronic Technology Co., LTD.               | No.68 Taoyuan Road, Kunshan Export Processing Zone, Area B, Kunshan, Jiang Su. PRC. 215300                    | +86-051257725688  | <a href="mailto:Wesley.Wu@dynapack.com.tw">Wesley.Wu@dynapack.com.tw</a>   | <a href="http://www.dynapack.com.tw">www.dynapack.com.tw</a>                     |
| LG Chem Ltd.   | LG Twin Tower 20 Yoido-dong Youngdungpo-gu, Seoul, Korea  | +82-42-870-6195   | <a href="mailto:kkammy@lgchem.com">kkammy@lgchem.com</a><br><a href="mailto:junyongs@lgchem.com">junyongs@lgchem.com</a> | <a href="http://www.lgchem.com">www.lgchem.com</a>                               |
| Panasonic Corporation, Automotive & Industrial Systems Company | 1-1 Matsushita-cho, Moriguchi City, Osaka, 570-8511, Japan  | +81-6-6994-4560   | <a href="mailto:un38.3_microbattery@ml.jp.panasonic.com">un38.3_microbattery@ml.jp.panasonic.com</a>                     | <a href="http://www.panasonic.com/global/home">www.panasonic.com/global/home</a> |

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| Test House  | Address   | Phone Number             | Email  | Website  |
|---|---|--------------------------|--|--|
| Pony Testing International Group                                | Bldg1, Court 66, Jindai Road, Zhongguancun Environmental Protection Park, Haidian District, Beijing                       | +86-10-83055000/82618116 | <a href="mailto:pony@ponytest.com">pony@ponytest.com</a>   | <a href="http://www.ponytest.com">www.ponytest.com</a>     |
| Samsung SDI Safety Center                                       | 508 Sungsungdong, Cheonan Chungcheongnamdo, Korea   | 031-8006-3100            | <a href="mailto:cp.sdi@samsung.com">cp.sdi@samsung.com</a><br><a href="mailto:sdimaster@samsung.com">sdimaster@samsung.com</a><br><a href="mailto:sustainability@samsung.com">sustainability@samsung.com</a> | <a href="http://www.samsungsdi.com">www.samsungsdi.com</a> |
| Shanghai Research Institute of Chemical Industry Testing Centre | West entrance, No.345 East Yunling Road, Shanghai   | 021-52815377             | <a href="mailto:wyorama@gmail.com">wyorama@gmail.com</a><br><a href="mailto:xutingmsds@gmail.com">xutingmsds@gmail.com</a><br><a href="mailto:binhuyu@gmail.com">binhuyu@gmail.com</a>                       | <a href="http://www.ghs.cn">www.ghs.cn</a>                 |
| Shenzhen Precise Testing Technology Co., Ltd.                   | Building 1, No. 9, Reservoir Road, Tangwei Community, Gongming Street, Guangming New District, Shenzhen, Guangdong, China | 0755-23084910            | <a href="mailto:precise@ptl-global.com">precise@ptl-global.com</a>   | <a href="http://www.ptl-global.com">www.ptl-global.com</a> |
| SIMPLO ELECTRONICS (SHANGHAI), LTD                              | No.28, Sanzhuang Road., Songjiang Export Processing Zone, Shanghai  | +86-21-57748286          | <a href="mailto:suppliers@simplo.com.tw">suppliers@simplo.com.tw</a>   | <a href="http://www.simplo.com.tw">www.simplo.com.tw</a>   |
| SIMPLO TECHNOLOGY CO., LTD.                                     | No.471, Sec.2, Pa Teh Rd., Hu Kou, Hsinchu Hsien 303, Taiwan  | +886(0)3-569-5920        | <a href="mailto:suppliers@simplo.com.tw">suppliers@simplo.com.tw</a>   | <a href="http://www.simplo.com.tw">www.simplo.com.tw</a>   |
| SIMPLO TECHNOLOGY (CHONG QING) INC.                             | No.2 Zongbao Avenue, Shapingba District, ChongQing, China   | +86-023-61718899         | <a href="mailto:suppliers@simplo.com.tw">suppliers@simplo.com.tw</a>   | <a href="http://www.simplo.com.tw">www.simplo.com.tw</a>   |
| SIMPLO TECHNOLOGY (CHANGSHU) INC.                               | No. 888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China                      | +86-512-52302255         | <a href="mailto:suppliers@simplo.com.tw">suppliers@simplo.com.tw</a>   | <a href="http://www.simplo.com.tw">www.simplo.com.tw</a>   |



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### Product List

The following table provides Microsoft Product Test Information. For products not found in this list, please reach out to [batteries@microsoft.com](mailto:batteries@microsoft.com).

| Model Number | Physical Description                     | Cells per Battery | Batteries per Product | Battery Weight (kg) | Rating (Wh) Or Lithium Content (g) | Test Report Number                                      | Test Report Date                       | UNID & Proper Shipping Name                           |
|--------------|--|-------------------|-----------------------|---------------------|------------------------------------|---|--|---|
| 1481         | Xbox 360 Wireless Headset with Bluetooth | 1                 | 1                     | 0.004               | 0.74 Wh                            | E04143004519~1  | 2011/04/28                             | UN3481 Lithium ion batteries contained in equipment   |
| 1514         | Surface Pro                              | 2                 | 1                     | 0.22                | 42.00 Wh                           | QAE-EF02-120319-PKEscalade                              | 2012/03/19                             | UN3481 Lithium ion batteries contained in equipment   |
| 1516         | Surface RT                               | 2                 | 1                     | 0.17                | 31.50 Wh                           | QAE-EF02-120308-PKTaurus                                | 2012/03/08                             | UN3481 Lithium ion batteries contained in equipment   |
| 1556         | Xbox One Play & Charge Kit               | 2                 | 1                     | 0.0308              | 4.66 Wh                            | KE2012-12-005<br>KE2012-12-009                          | 2012/12/12<br>2012/12/13               | UN3480 Lithium ion batteries                          |
| 1558         | Sculpt Ergonomic Number Pad              | 1                 | 1                     | 0.0045              | 0.09 g                             | Coin_TS-2020-REV4                                       | 2020/08/27                             | UN3091 Lithium metal batteries contained in equipment |
| 1572         | Surface 2                                | 2                 | 1                     | 0.16                | 31.30 Wh                           | QAE-EF02-130628-PKPLUTO<br>RTN-UN-1306-019<br>MT0083833 | 2013/06/28<br>2013/06/25<br>2013/06/26 | UN3481 Lithium ion batteries contained in equipment   |
| 1601         | Surface Pro 2                            | 2                 | 1                     | 0.22                | 42.00 Wh                           | QAE-EF02-120319-PKEscalade                              | 2012/03/19                             | UN3481 Lithium ion batteries contained in equipment   |
| 1602         | Surface Power Cover                      | 4                 | 1                     | 0.21                | 29.94 Wh                           | MT0062859   | 2012/04/13                             | UN3481 Lithium ion batteries contained in equipment   |
| 1619         | Microsoft Band                           | 1                 | 1                     | 0.0039              | 0.36 Wh                            | 1114110005<br>I04143068121D~1<br>I04143067821D~1        | 2014/11/24<br>2014/04/28<br>2014/04/28 | UN3481 Lithium ion batteries contained in equipment   |



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OF UN MANUAL OF TESTS AND CRITERIA

| Model Number | Physical Description               | Cells per Battery | Batteries per Product | Battery Weight (kg) | Rating (Wh) Or Lithium Content (g) | Test Report Number  | Test Report Date                       | UNID & Proper Shipping Name                           |
|--------------|------------------------------------|-------------------|-----------------------|---------------------|------------------------------------|---|--|---|
| 1631         | Surface Pro 3                      | 4                 | 1                     | 0.19                | 42.16 Wh                           | QAE-EF02-140129-PKX883815<br>SMIU-1408001<br>SMIU-1403001 | 2014/01/29<br>2014/08/04<br>2014/03/25 | UN3481 Lithium ion batteries contained in equipment   |
| 1640         | Surface Hub Device Pen             | 1                 | 1                     | 0.0255              | 1.18 Wh                            | H09093022621D~1   | 2013/09/26                             | UN3481 Lithium ion batteries contained in equipment   |
| 1645         | Surface 3                          | 2                 | 1                     | 0.134               | 27.50 Wh                           | SMIU-1401002<br>SMIU-1406001<br>SMIU-1401001              | 2014/01/06<br>2014/06/23<br>2014/01/08 | UN3481 Lithium ion batteries contained in equipment   |
| 1657         | Surface 3 with LTE                 | 2                 | 1                     | 0.134               | 27.50 Wh                           | SMIU-1401002<br>SMIU-1406001<br>SMIU-1401001              | 2014/01/06<br>2014/06/23<br>2014/01/08 | UN3481 Lithium ion batteries contained in equipment   |
| 1688         | HoloLens                           | 6                 | 1                     | 0.012               | 13.00 Wh                           | UN-M1357BN  | 2014/06/09                             | UN3481 Lithium ion batteries contained in equipment   |
| 1703         | Surface Book                       | 2                 | 1                     | 0.088               | 18.90 Wh                           | UN-DAK822470K<br>MI-CU-15-01-013                          | 2014/12/12<br>2015/01/11               | UN3481 Lithium ion batteries contained in equipment   |
| 1704         | Surface Book Keyboard Base         | 4                 | 1                     | 0.2455              | 52.76 Wh                           | MI-CU-15-02-019<br>MI-CU-15-01-047                        | 2015/02/10<br>2015/01/23               | UN3481 Lithium ion batteries contained in equipment   |
| 1705         | Surface Book Keyboard Base         | 4                 | 1                     | 0.2455              | 52.76 Wh                           | MI-CU-15-02-019<br>MI-CU-15-01-047                        | 2015/02/10<br>2015/01/23               | UN3481 Lithium ion batteries contained in equipment   |
| 1707         | Surface Studio<br>Surface Studio 2 | 1                 | 1                     | 0.0032              | 0.07 g                             | Coin_TS-2020-REV1   | 2019/11/20                             | UN3091 Lithium metal batteries contained in equipment |
| 1721         | Microsoft Band 2 (Small)           | 1                 | 1                     | 0.0034              | 0.67 Wh                            | MZIA2H4A51770721  | 2015/06/29                             | UN3481 Lithium ion batteries contained in equipment   |
| 1721         | Microsoft Band 2 (Medium / Large)  | 1                 | 1                     | 0.0038              | 0.76 Wh                            | MZIA2H4A51766721  | 2015/06/29                             | UN3481 Lithium ion batteries contained in equipment   |



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OF UN MANUAL OF TESTS AND CRITERIA

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|--------------|--|-------------------|-----------------------|---------------------|------------------------------------|---|--|---|
| 1724         | Surface Pro 4                                      | 2                 | 1                     | 0.1788              | 39.47 Wh                           | MI-CU-15-02-013<br>DYNR01(LGC)                  | 2015/02/09<br>2015/03/17               | UN3481 Lithium ion batteries contained in equipment |
| 1727         | Xbox One Play & Charge Kit                         | 2                 | 1                     | 0.0308              | 4.66 Wh                            | UN-Zest   | 2015/04/10                             | UN3480 Lithium ion batteries                        |
| 1769         | Surface Laptop (i5/i7)<br>Surface Laptop 2 (i5/i7) | 4                 | 1                     | 0.1995              | 45.19 Wh                           | UN-DYNK01<br>MI-CU-15-11-024<br>MI-CU-16-04-015 | 2016/04/19<br>2015/11/12<br>2016/04/21 | UN3481 Lithium ion batteries contained in equipment |
| 1782         | Surface Laptop (CoreM)                             | 4                 | 1                     | 0.1995              | 45.19 Wh                           | UN-DYNK01<br>MI-CU-15-11-024<br>MI-CU-16-04-015 | 2016/04/19<br>2015/11/12<br>2016/04/21 | UN3481 Lithium ion batteries contained in equipment |
| 1785         | Surface Book Performance Base                      | 4                 | 1                     | 0.264               | 59.4 Wh                            | MI-CU-16-06-022<br>S-16040078                   | 2016/06/27<br>2016/04/25               | UN3481 Lithium ion batteries contained in equipment |
| 1793         | Surface Book 2 15" - Display                       | 2                 | 1                     | 0.098               | 23.2 Wh                            | UN-DYNH01                                       | 2016/07/13                             | UN3481 Lithium ion batteries contained in equipment |
| 1795         | Non-GPU Base for Surface Book 2 15"                | 6                 | 1                     | 0.250               | 62.2 Wh                            | MI-CU-16-07-011<br>MI-CU-16-07-012              | 2016/07/19<br>2016/07/19               | UN3481 Lithium ion batteries contained in equipment |
| 1796         | Surface Pro (5 <sup>th</sup> Gen)<br>Surface Pro 6 | 4                 | 1                     | 0.185               | 45 Wh                              | UN-DYNM02<br>MI-CU-16-05-018                    | 2016/11/02<br>2016/05/16               | UN3481 Lithium ion batteries contained in equipment |
| 1797         | Xbox Elite Wireless Controller Series 2            | 1                 | 1                     | 0.04                | 7.79 Wh                            | DYND01  | 2019/01/04                             | UN3481 Lithium ion batteries contained in equipment |
| 1807         | Surface Pro (LTE)                                  | 4                 | 1                     | 0.185               | 45 Wh                              | UN-DYNM02<br>MI-CU-16-05-018                    | 2016/11/02<br>2016/05/16               | UN3481 Lithium ion batteries contained in equipment |
| 1813         | GPU Base for Surface Book 2 15"                    | 6                 | 1                     | 0.250               | 62.2 Wh                            | MI-CU-16-07-011<br>MI-CU-16-07-012              | 2016/07/19<br>2016/07/19               | UN3481 Lithium ion batteries contained in equipment |



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|--------------|---|-------------------|-----------------------|---------------------|------------------------------------|------------------------------------|---------------------------|---|
| 1818         | Surface Precision Mouse                               | 1                 | 1                     | 0.017               | 2.31WH                             | UN-CUSHMAN                         | 2017/08/21                | UN3481 Lithium ion batteries contained in equipment   |
| 1824         | Surface Go  | 2                 | 1                     | 0.100               | 26.77 Wh                           | SQUU-1711003                       | 2017/11/06                | UN3481 Lithium ion batteries contained in equipment   |
| 1825         | Surface Go LTE  | 2                 | 1                     | 0.100               | 26.77 Wh                           | SQUU-1711003                       | 2017/11/06                | UN3481 Lithium ion batteries contained in equipment   |
| 1830         | Surface Headphones                                    | 1                 | 1                     | 0.0094              | 1.9 Wh                             | RTN-UN-1704-021                    | 2017/05/17                | UN3481 Lithium ion batteries contained in equipment   |
| 1832         | Surface Book 2 13" - Tablet                           | 4                 | 1                     | 0.082               | 18 Wh                              | MI-CU-17-02-001<br>MI-CU-17-02-017 | 2017/02/05<br>2017/02/22  | UN3481 Lithium ion batteries contained in equipment   |
| 1834         | Non-GPU Bottom for Surface Book 2 13"                 | 6                 | 1                     | 0.235               | 51 Wh                              | MI-CU-17-02-013                    | 2017/02/19                | UN3481 Lithium ion batteries contained in equipment   |
| 1835         | GPU Bottom for Surface Book 2 13"                     | 6                 | 1                     | 0.237               | 57.3 Wh                            | MI-CU-17-04-003<br>MI-CU-17-04-006 | 2017/04/21<br>2017/04/23  | UN3481 Lithium ion batteries contained in equipment   |
| 1836         | Xbox Adaptive Controller                              | 1                 | 1                     | 0.034               | 7.79 Wh                            | UN-DYNZ01                          | 2017/12/25                | UN3481 Lithium ion batteries contained in equipment   |
| 1843         | Surface Hub 2S  | 1                 | 1                     | 0.0032              | 0.07 g                             | Coin_TS-2020-REV1                  | 2019/11/20                | UN3091 Lithium metal batteries contained in equipment |
| 1852         | Surface Earbuds (Right)<br><i>See also 1938, 1916</i> | 1                 | 1                     | 0.0016              | 0.222 Wh                           | 1116080184                         | 2016/09/03-<br>2016/10/17 | UN3481 Lithium ion batteries contained in equipment   |
| 1853         | Surface Slim Pen                                      | 1                 | 1                     | 0.0005              | 0.038 Wh                           | CG-320A-001                        | 2015/11/13                | UN3481 Lithium ion batteries contained in equipment   |



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LITHIUM CELLS OR BATTERIES TEST SUMMARY  
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OF UN MANUAL OF TESTS AND CRITERIA

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|--------------|---------------------------------|-------------------|-----------------------|---------------------|------------------------------------|---|--|---|
| 1855         | HoloLens 2                      | 4                 | 1                     | 0.081               | 16.7 Wh                            | DYNT01  | 2018/05/14   | UN3481 Lithium ion batteries contained in equipment   |
| 1866         | Surface Pro 7                   | 4                 | 1                     | 0.190               | 45 Wh                              | UN-DYNT03<br>PE-CU-19-02-001  | 2019/03/29<br>2019/01/29   | UN3481 Lithium ion batteries contained in equipment   |
| 1867         | Surface Laptop 3 13.5" Fabric   | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1868         | Surface Laptop 3 13.5" Metal    | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1872         | Surface Laptop 3 15" Intel Core | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1873         | Surface Laptop 3 15" AMD Ryzen  | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1876         | Surface Pro X                   | 4                 | 1                     | 0.175               | 38.2 Wh                            | MI-CU-18-08-002<br>S-19030247A0   | 2018/08/07<br>2019/04/24   | UN3481 Lithium ion batteries contained in equipment   |
| 1881         | Xbox Dev Kit (Series X)         | 1                 | 1                     | 0.003               | 0.07 g                             | LB160059  | 2006/08/23   | UN3091 Lithium metal batteries contained in equipment |





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|--------------|---|-------------------|-----------------------|---------------------|------------------------------------|------------------------------------|--------------------------|---|
| 1883         | Xbox Test Kit (Series S)                                    | 1                 | 1                     | 0.003               | 0.07 g                             | LB160059                           | 2006/08/23               | UN3091 Lithium metal batteries contained in equipment |
| 1899         | Surface Book 3 i7 15" Top                                   | 2                 | 1                     | 0.0965              | 23.2 Wh                            | UN-DYNH02-CoxMX                    | 2019/05/28               | UN3481 Lithium ion batteries contained in equipment   |
| 1900         | Surface Book 3 i5 & i7 13.5" Top                            | 2                 | 1                     | 0.088               | 18 Wh                              | MI-CU-17-02-001<br>MI-CU-17-02-017 | 2017/02/05<br>2017/02/22 | UN3481 Lithium ion batteries contained in equipment   |
| 1901         | Surface Go 2<br>Surface Go 3                                | 2                 | 1                     | 0.120               | 26.8 Wh                            | QU-CU-19-06-003<br>UN-DYNU01-ATL   | 2019/06/11<br>2019/08/22 | UN3481 Lithium ion batteries contained in equipment   |
| 1907         | Surface Book 3 GPU 15" Base                                 | 6                 | 1                     | 0.250               | 62.2 Wh                            | MI-CU-16-07-011<br>MI-CU-16-07-012 | 2016/07/19<br>2016/07/19 | UN3481 Lithium ion batteries contained in equipment   |
| 1908         | Surface Book 3 Non-GPU 13.5" Base                           | 4                 | 1                     | 0.235               | 54.8 Wh                            | MI-CU-17-02-013                    | 2017/02/19               | UN3481 Lithium ion batteries contained in equipment   |
| 1909         | Surface Book 3 GPU 13.5" Base                               | 6                 | 1                     | 0.236               | 57.3 Wh                            | MI-CU-17-04-003<br>MI-CU-17-04-006 | 2017/04/21<br>2017/04/23 | UN3481 Lithium ion batteries contained in equipment   |
| 1916         | Surface Earbuds Charging Case<br><i>See also 1852, 1938</i> | 1                 | 1                     | 0.01                | 1.1 Wh                             | 1119090104                         | 2019/10/10               | UN3481 Lithium ion batteries contained in equipment   |
| 1919         | Surface Headphones 2<br>Surface Headphones 2+               | 1                 | 1                     | 0.0104              | 2.14 Wh                            | RTN-UN-1905-4001                   | 2019/10/25               | UN3481 Lithium ion batteries contained in equipment   |
| 1926         | Surface Go 2 w/ NFC<br>Surface Go 3                         | 2                 | 1                     | 0.120               | 26.8 Wh                            | QU-CU-19-06-003<br>UN-DYNU01-ATL   | 2019/06/11<br>2019/08/22 | UN3481 Lithium ion batteries contained in equipment   |
| 1927         | Surface Go 2 LTE  | 2                 | 1                     | 0.120               | 26.8 Wh                            | QU-CU-19-06-003<br>UN-DYNU01-ATL   | 2019/06/11<br>2019/08/22 | UN3481 Lithium ion batteries contained in equipment   |



## Lithium Battery UN 38.3 Test Summary

LITHIUM CELLS OR BATTERIES TEST SUMMARY  
IN ACCORDANCE WITH SUB-SECTION 38.3  
OF UN MANUAL OF TESTS AND CRITERIA

| Model Number | Physical Description                                 | Cells per Battery | Batteries per Product | Battery Weight (kg) | Rating (Wh) Or Lithium Content (g) | Test Report Number  | Test Report Date   | UNID & Proper Shipping Name                           |
|--------------|--|-------------------|-----------------------|---------------------|------------------------------------|---|--|---|
| 1930         | Surface Duo  | 1                 | 2                     | 0.044               | 10.7 Wh                            | MI-CU-19-09-016<br>MI-CU-19-09-018  | 2019/09/30<br>2019/09/30   | UN3481 Lithium ion batteries contained in equipment   |
|              |  |                   |                       | 0.014               | 2.8 Wh                             | MI-CU-19-09-012<br>MI-CU-19-09-014  | 2019/09/30<br>2019/09/30   |   |
| 1934         | Surface Hub 2S 85"                                   | 1                 | 1                     | 0.0032              | 0.07 g                             | Coin_TS-2020-REV1   | 2019/11/20   | UN3091 Lithium metal batteries contained in equipment |
| 1938         | Surface Earbuds (Left)<br><i>See also 1852, 1916</i> | 1                 | 1                     | 0.0016              | 0.222 Wh                           | 1116080184  | 2016/09/03-<br>2016/10/17  | UN3481 Lithium ion batteries contained in equipment   |
| 1943         | Surface Laptop Go                                    | 4                 | 1                     | 0.185               | 39.7 Wh                            | WI-CU-20-03-005<br>UN-DYNZ02-A2   | 2020/03/25<br>2020/03/18   | UN3481 Lithium ion batteries contained in equipment   |
| 1944         | Xbox Wireless Headset                                | 1                 | 1                     | 0.016               | 3.77 Wh                            | DGXNY20200106U01  | 2020/01/20   | UN3481 Lithium ion batteries contained in equipment   |
| 1950         | Surface Laptop 4 13.5" Fabric, Intel Core            | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1951         | Surface Laptop 4 13.5" Metal, Intel Core             | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1953         | Surface Laptop 4 15" Metal, AMD Ryzen                | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |



## Lithium Battery UN 38.3 Test Summary

LITHIUM CELLS OR BATTERIES TEST SUMMARY  
IN ACCORDANCE WITH SUB-SECTION 38.3  
OF UN MANUAL OF TESTS AND CRITERIA

| Model Number | Physical Description                     | Cells per Battery | Batteries per Product | Battery Weight (kg) | Rating (Wh) Or Lithium Content (g) | Test Report Number  | Test Report Date   | UNID & Proper Shipping Name                           |
|--------------|--|-------------------|-----------------------|---------------------|------------------------------------|---|--|---|
| 1954         | Microsoft Designer Compact Keyboard      | 1                 | 4                     | 0.0029              | 0.07 g                             | Coin_TS-2020-REV1   | 2019/11/20   | UN3091 Lithium metal batteries contained in equipment |
| 1958         | Surface Laptop 4 13.5" Fabric, AMD Ryzen | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1959         | Surface Laptop 4 13.5" Metal, AMD Ryzen  | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment   |
| 1960         | Surface Pro 7+                           | 4                 | 1                     | 0.220               | 48.9 Wh                            | MI-CU-20-02-002<br>MI-CU-20-02-001<br>UN-DYNH03-A1  | 2020/02/19<br>2020/02/18<br>2020/03/06                             | UN3481 Lithium ion batteries contained in equipment   |
| 1961         | Surface Pro 7+ with LTE Advanced         | 4                 | 1                     | 0.220               | 48.9 Wh                            | MI-CU-20-02-002<br>MI-CU-20-02-001<br>UN-DYNH03-A1  | 2020/02/19<br>2020/02/18<br>2020/03/06                             | UN3481 Lithium ion batteries contained in equipment   |
| 1962         | Surface Slim Pen 2                       | 1                 | 1                     | 0.0015              | 0.164 Wh                           | RTN-UN-2008-4004  | 2020/09/13   | UN3481 Lithium ion batteries contained in equipment   |
| 1964         | Surface Laptop Studio                    | 6                 | 1                     | 0.235               | 56.3 Wh                            | MI-CU-20-11-001<br>MI-CU-20-11-003  | 2021/05/21<br>2020/05/21   | UN3481 Lithium ion batteries contained in equipment   |
| 1968         | Surface Duo 2                            | 1                 | 2                     | 0.055<br>0.015      | 13.96 Wh<br>2.74 Wh                | MI-CU-21-05-001<br>MI-CU-21-05-003<br>MI-CU-21-03-009<br>MI-CU-21-005                     | 2021/05/11<br>2021/05/11<br>2021/03/10<br>2021/03/05               | UN3481 Lithium ion batteries contained in equipment   |
| 1969         | Microsoft Number Pad                     | 1                 | 1                     | 0.0029              | 0.07 g                             | Coin_TS-2020-REV1   | 2019/11/20   | UN3091 Lithium metal batteries contained in equipment |



## Lithium Battery UN 38.3 Test Summary

LITHIUM CELLS OR BATTERIES TEST SUMMARY  
IN ACCORDANCE WITH SUB-SECTION 38.3  
OF UN MANUAL OF TESTS AND CRITERIA

| Model Number | Physical Description                   | Cells per Battery | Batteries per Product | Battery Weight (kg) | Rating (Wh) Or Lithium Content (g) | Test Report Number  | Test Report Date   | UNID & Proper Shipping Name                         |
|--------------|--|-------------------|-----------------------|---------------------|------------------------------------|---|--|---|
| 1979         | Surface Laptop 4 15" Metal, Intel Core | 6                 | 1                     | 0.220               | 45.8 Wh                            | UN-DYNT02-ATL<br>MI-CU-19-03-007<br>MI-CU-19-03-005<br>MI-CU-19-03-012<br>MI-CU-19-03-011 | 2019/07/16<br>2019/03/18<br>2019/03/15<br>2019/03/18<br>2019/03/18 | UN3481 Lithium ion batteries contained in equipment |
| 1982         | Surface Pro 8 LTE                      | 3                 | 1                     | 0.213               | 50.2 Wh                            | MI-CU-20-12-005<br>MI-CU-20-10-001  | 2020/12/18<br>2020/10/11   | UN3481 Lithium ion batteries contained in equipment |
| 1983         | Surface Pro 8 Wifi                     | 3                 | 1                     | 0.213               | 50.2 Wh                            | MI-CU-20-12-005<br>MI-CU-20-10-001  | 2020/12/18<br>2020/10/11   | UN3481 Lithium ion batteries contained in equipment |
| 1995         | Surface Duo 2                          | 1                 | 2                     | 0.055<br>0.015      | 13.96 Wh<br>2.74 Wh                | MI-CU-21-05-001<br>MI-CU-21-05-003<br><br>MI-CU-21-03-009<br>MI-CU-21-005                 | 2021/05/11<br>2021/05/11<br><br>2021/03/10<br>2021/03/05           | UN3481 Lithium ion batteries contained in equipment |
| 1998         | Microsoft Modern Wireless Headset      | 1                 | 1                     | 0.0104              | 2.14 Wh                            | RTN-UN-1905-4001  | 2019/10/25   | UN3481 Lithium ion batteries contained in equipment |
| 2010         | Surface Pro X                          | 4                 | 1                     | 0.175               | 38.2 Wh                            | S-19030247A0<br>MI-CU-18-08-002   | 2019/04/24<br>2018/08/07   | UN3481 Lithium ion batteries contained in equipment |
| 2013         | Surface Laptop Go 2                    | 4                 | 1                     | 0.185               | 39.7                               | WI-CU-20-03-005<br>UN-DYNZ02-A3   | 2021/12/23<br>2021/11/15   | UN3481 Lithium ion batteries contained in equipment |
| 2016         | Surface Laptop SE                      | 2                 | 1                     | 0.190               | 33.9 Wh                            | SQUU-2101002  | 2021/01/25   | UN3481 Lithium ion batteries contained in equipment |
| 2022         | Surface Go 3 LTE                       | 2                 | 1                     | 0.120               | 26.8 Wh                            | QU-CU-19-06-003<br>UN-DYNU01-ATL  | 2019/06/11<br>2019/08/22   | UN3481 Lithium ion batteries contained in equipment |



## Lithium Battery UN 38.3 Test Summary

LITHIUM CELLS OR BATTERIES TEST SUMMARY  
IN ACCORDANCE WITH SUB-SECTION 38.3  
OF UN MANUAL OF TESTS AND CRITERIA

Preparation Date: June 1, 2022

Prepared by: Nils Kingston

Revision: 2022C

X *Wendy Phippen*

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Wendy Phippen

Director, Devices Environmental Compliance ...