Particle Resolution Size Comparison

Taken using Nikon D7100 Camera with 2x Teleconverter and analyzed in Matlab

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Diameter if Perfect Circle (um) | Number of Particles with this Diameter | Perimeter (um) | Serial Number  | Image |
| 10.0066881 | 229 | 0 | 22 | C:\Users\ligo\Documents\Sabrina Waller\particle 22 image.JPG |
| 14.15159403 | 143 | 17.381665 | 339 | C:\Users\ligo\Documents\Sabrina Waller\particle 339 image.JPG |
| 17.33209221 | 105 | 27.42933156 | 300 | C:\Users\ligo\Documents\Sabrina Waller\particle 300 image.JPG |
| 20.0133762 | 80 | 40.70502162 | 921 | C:\Users\ligo\Documents\Sabrina Waller\particle 921 image.JPG |
| 22.37563482 | 98 | 56.47267487 | 327 | C:\Users\ligo\Documents\Sabrina Waller\particle 327 image.JPG |
| 24.51127986 | 72 | 56.47267487 | 822 | C:\Users\ligo\Documents\Sabrina Waller\particle 822 image.JPG |
| 26.47520816 | 72 | 56.47267487 | 97 | C:\Users\ligo\Documents\Sabrina Waller\particle 97 image.JPG |
| 28.30318805 | 76 | 73.85433987 | 780 |  |
| 30.0200643 | 75 | 71.43332225 | 856 |  |
| 31.64392623 | 74 | 86.32302405 | 980 |  |
| 33.18842982 | 78 | 80.60303736 | 400 |  |
| 34.66418441 | 68 | 84.7090123 | 349 |  |
| 36.07962704 | 48 | 95.56368474 | 288 |  |
| 37.44159845 | 53 | 102.8976832 | 777 |  |
| 38.75573636 | 48 | 107.225363 | 883 |  |
| 40.0267524 | 55 | 109.6463807 | 795 |  |
| 41.258632 | 49 | 122.1150648 | 755 |  |
| 42.45478208 | 34 | 119.6940472 | 1535 |  |
| 43.61814219 | 40 | 112.9453497 | 1421 |  |
| 44.75126964 | 17 | 133.7767432 | 24 |  |
| 45.85640568 | 36 | 135.2399956 | 651 |  |
| 46.93552757 | 25 | 127.0280457 | 660 |  |
| 47.99039024 | 22 | 134.6546946 | 705 |  |
| 49.02255972 | 21 | 137.0757122 | 459 |  |
| 50.0334405 | 18 | 158.5633522 | 390 |  |
| 51.02429789 | 14 | 179.3947456 | 773 |  |
| 51.99627662 | 16 | 141.988693 | 154 |  |
| 52.95041632 | 14 | 171.8390422 | 1716 |  |
| 53.88766459 | 11 | 149.5443964 | 815 |  |
| 54.80888799 | 13 | 166.9260614 | 122 |  |
| 55.7148814 | 12 | 159.592063 | 4 |  |
| 56.6063761 | 12 | 196.9981155 | 677 |  |
| 57.48404668 | 6 | 156.9493404 | 246 |  |
| 58.34851694 | 9 | 174.3310054 | 190 |  |
| 59.20036517 | 10 | 193.5483871 | 111 |  |
| 60.0401286 | 8 | 176.0957765 | 739 |  |
| 60.86830743 | 8 | 175.2887706 | 307 |  |
| 61.68536825 | 2 | 282.5141337 | 800 |  |
| 62.49174716 | 6 | 203.5251081 | 746 |  |
| 63.28785246 | 3 | 176.7520231 | 530 |  |
| 64.07406711 | 5 | 203.5251081 | 1517 |  |
| 64.85075083 | 2 | 195.1623988 | 670 |  |
| 65.61824205 | 2 | 196.9981155 | 1479 |  |
| 66.37685965 | 5 | 214.1580756 | 988 |  |
| 67.12690447 | 4 | 206.8240772 | 1689 |  |
| 67.86866074 | 5 | 211.5153531 | 364 |  |
| 68.60239731 | 7 | 219.2927613 | 878 |  |
| 69.32836882 | 3 | 192.5196763 | 1181 |  |
| 70.0468167 | 4 | 214.2290212 | 1497 |  |
| 70.75797013 | 3 | 343.1637291 | 205 |  |
| 71.46204688 | 2 | 295.7898237 | 1715 |  |
| 72.849789 | 2 | 230.1474338 | 480 |  |
| 73.53383958 | 1 | 269.8237446 | 1047 |  |
| 74.21158515 | 1 | 230.9544396 | 417 |  |
| 74.8831969 | 3 | 282.2924288 | 374 |  |
| 75.5488384 | 1 | 257.3550604 | 1205 |  |
| 76.86282975 | 1 | 241.0021062 | 1650 |  |
| 78.15473249 | 2 | 229.9257289 | 61 |  |
| 78.7927409 | 2 | 228.533422 | 1477 |  |
| 79.42562448 | 1 | 242.4653586 | 887 |  |
| 80.67649867 | 5 | 239.1663895 | 750 |  |
| 81.90827218 | 1 | 299.0887928 | 1642 |   |
| 82.517264 | 1 | 269.2384436 | 845 |  |
| 83.12179416 | 1 | 315.6634519 | 1057 |  |
| 83.72195932 | 2 | 262.2680412 | 1033 |  |
| 84.90956416 | 2 | 260.8757344 | 1500 |  |
| 85.49718061 | 3 | 295.5681188 | 473 |  |
| 86.08078589 | 1 | 373.9718435 | 679 |  |
| 86.66046103 | 1 | 358.8604368 | 248 |  |
| 87.80833172 | 2 | 354.9052212 | 1632 |  |
| 90.61441471 | 2 | 271.5087019 | 996 |  |
| 92.25710581 | 1 | 279.2861102 | 1199 |  |
| 93.33617298 | 1 | 286.5491631 | 1110 |  |
| 93.87105514 | 1 | 367.223146 | 1765 |  |
| 94.40290673 | 4 | 281.4854229 | 464 |  |
| 96.50100532 | 2 | 309.7217603 | 329 |  |
| 98.04511945 | 2 | 444.3764549 | 1622 |  |
| 99.06115818 | 2 | 360.4744485 | 452 |  |
| 100.066881 | 1 | 436.749806 | 70 |  |
| 100.5659708 | 1 | 539.6474892 | 1432 |  |
| 101.0625959 | 1 | 522.4875291 | 153 |  |
| 101.5567925 | 1 | 382.6981488 | 678 |  |
| 103.9925532 | 1 | 464.4008425 | 589 |  |
| 105.9008326 | 1 | 375.6568008 | 1736 |  |
| 108.7004563 | 1 | 416.1401175 | 353 |  |
| 110.5274827 | 1 | 380.498836 | 1701 |  |
| 120.0802572 | 1 | 391.9388094 | 1569 |  |
| 122.1471948 | 1 | 428.5378561 | 1573 |  |
| 136.1056731 | 1 | 487.4315486 | 1140 |  |
| 141.869289 | 1 | 650.7571223 | 1778 |  |
| 145.3555407 | 1 | 517.5745483 | 1368 |  |
| 148.4231703 | 1 | 698.6542512 | 494 |  |
| 149.4317199 | 1 | 522.4165835 | 26 |  |
| 154.3756652 | 1 | 596.1201641 | 1788 |  |
| 155.9888298 | 1 | 520.7316262 | 1659 |  |
| 164.7308764 | 1 | 661.762554 | 1595 |  |
| 174.7592946 | 1 | 1055.829731 | 1580 |  |
| 185.5964157 | 1 | 862.9375901 | 1606 |  |
| 196.8547262 | 1 | 677.7519122 | 867 |  |
| 200.8828617 | 1 | 914.4972841 | 1218 |  |
| 205.8071919 | 1 | 1777.142224 | 226 |  |
| 233.8227074 | 1 | 1510.697262 | 844 |  |
| 376.5494262 | 1 | 4701.95322 | 148 |  |
| 591.326689 | 1 | 7072.138344 | 98 |  |