

## Technical Data Sheet

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### **Barium Carbonate Powder**

Chemical formula: BaCO<sub>3</sub>  
Molecular weight: 197.35  
Tapped Density: 0.8-1.2g/cm<sup>3</sup>

Appearance: White powder, Soluble in acid,  
Insoluble in water, Poisonous

#### Typical Analysis:

|                                  |             |
|----------------------------------|-------------|
| Purity                           | 99.20% min. |
| Moisture                         | 0.30% max   |
| Total Sulphur as SO <sub>4</sub> | 0.30% max   |
| HCL Insoluble Matter             | 0.25% max.  |
| Iron (Fe)                        | 0.004% max  |
| +325 Mesh                        | 3.00% max.  |
| Average Particle Size            | 5-10um      |

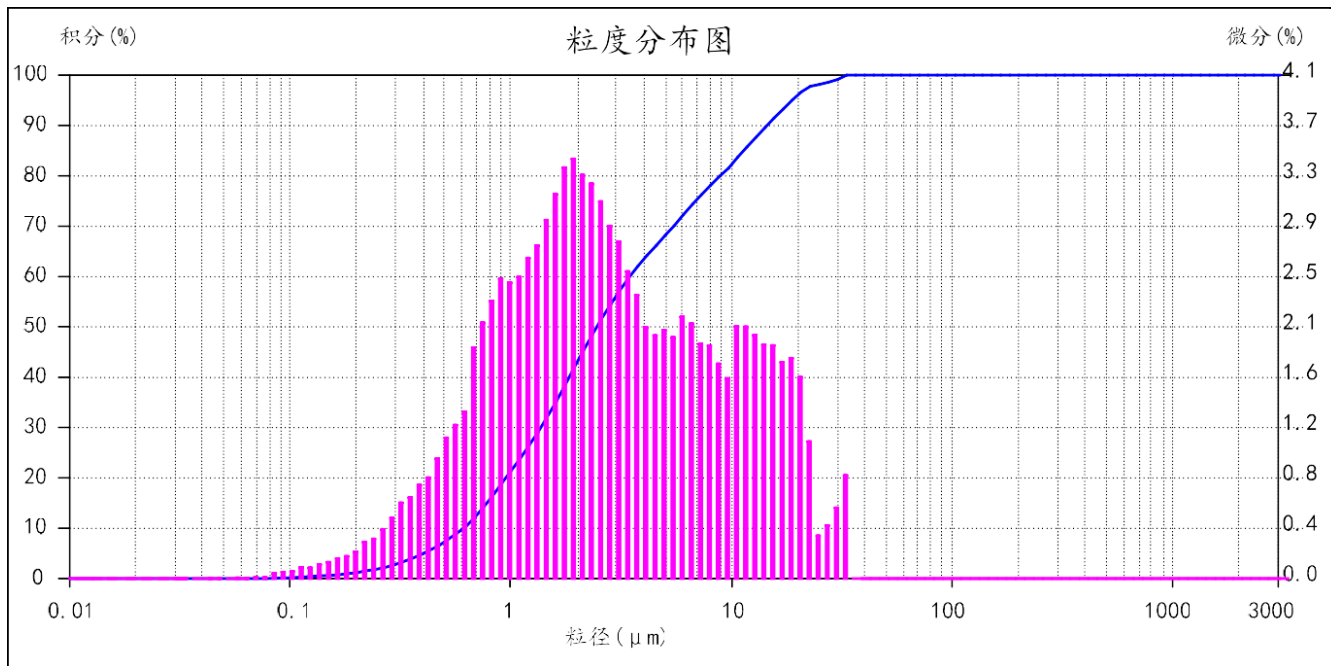
Packing: 25kg/1000kg Plastic Woven Bag

Uses: Manufacture of construction materials,  
Caustic soda, ceramics, magnetic materials,  
various barium salts; also used as chemical reagent, etc.

**LASER PARTICLE SIZE TEST REPORT**

|  |                         |                     |
|--|-------------------------|---------------------|
| 试样名称: 碳酸钡                                      | D3: 0.306 μm            | D6: 0.444 μm        |
| 试样编号: SX-2023032001G                           | D10: 0.608 μm           | D16: 0.805 μm       |
| 介质名称: 水  | D25: 1.139 μm           | D50: 2.431 μm       |
| 操作人员: 王保权                                      | D75: 6.788 μm           | D84: 10.729 μm      |
| 浓度: 73.1                                       | D90: 14.300 μm          | D97: 20.980 μm      |
| 表面积/体积: 4.4229 m <sup>2</sup> /cm <sup>3</sup> | D98: 23.701 μm          | Model: 自由分布_2       |
| 体积平均粒径D[4,3]: 4.902 μm                         | 面积平均粒径 D[3,2]: 1.356 μm | 样品折射率: 1.51+ 0.010i |
| 测试日期: 2023-03-20 15:17:35                      | 文件名: 2023032001G.mjl    | 介质折射率: 1.33         |

**Particle Size Distribution Chart**



| 粒径 (μm) | 积分 (%) | 微分 (%) | 粒径 (μm) | 积分 (%)  | 微分 (%) | 粒径 (μm) | 积分 (%)  | 微分 (%) |
|---------|--------|--------|---------|---------|--------|---------|---------|--------|
| 0.010   | 0.000  | 0.000  | 1.199   | 26.471  | 2.619  | 63.40   | 100.000 | 0.000  |
| 0.012   | 0.000  | 0.000  | 1.318   | 29.190  | 2.719  | 69.68   | 100.000 | 0.000  |
| 0.014   | 0.000  | 0.000  | 1.449   | 32.119  | 2.929  | 76.58   | 100.000 | 0.000  |
| 0.017   | 0.000  | 0.000  | 1.592   | 35.257  | 3.138  | 84.17   | 100.000 | 0.000  |
| 0.020   | 0.000  | 0.000  | 1.750   | 38.614  | 3.357  | 92.51   | 100.000 | 0.000  |
| 0.024   | 0.001  | 0.001  | 1.924   | 42.044  | 3.429  | 101.7   | 100.000 | 0.000  |
| 0.028   | 0.002  | 0.001  | 2.000   | 43.364  | 1.320  | 111.7   | 100.000 | 0.000  |
| 0.034   | 0.004  | 0.002  | 2.114   | 45.339  | 1.975  | 122.8   | 100.000 | 0.000  |
| 0.040   | 0.005  | 0.000  | 2.324   | 48.564  | 3.225  | 135.0   | 100.000 | 0.000  |
| 0.044   | 0.007  | 0.002  | 2.554   | 51.644  | 3.080  | 148.4   | 100.000 | 0.000  |
| 0.048   | 0.010  | 0.003  | 2.807   | 54.523  | 2.879  | 163.1   | 100.000 | 0.000  |
| 0.053   | 0.011  | 0.001  | 3.085   | 57.275  | 2.751  | 179.2   | 100.000 | 0.000  |
| 0.058   | 0.015  | 0.004  | 3.391   | 59.785  | 2.510  | 197.0   | 100.000 | 0.000  |
| 0.064   | 0.018  | 0.003  | 3.727   | 62.100  | 2.315  | 216.5   | 100.000 | 0.000  |
| 0.071   | 0.028  | 0.010  | 4.096   | 64.151  | 2.051  | 237.9   | 100.000 | 0.000  |
| 0.077   | 0.036  | 0.008  | 4.502   | 66.136  | 1.985  | 261.5   | 100.000 | 0.000  |
| 0.085   | 0.077  | 0.041  | 4.947   | 68.165  | 2.029  | 287.4   | 100.000 | 0.000  |
| 0.094   | 0.126  | 0.049  | 5.438   | 70.133  | 1.968  | 315.9   | 100.000 | 0.000  |
| 0.103   | 0.186  | 0.059  | 5.976   | 72.272  | 2.138  | 347.2   | 100.000 | 0.000  |
| 0.113   | 0.275  | 0.090  | 6.568   | 74.352  | 2.081  | 381.6   | 100.000 | 0.000  |
| 0.124   | 0.362  | 0.086  | 7.219   | 76.268  | 1.916  | 419.4   | 100.000 | 0.000  |
| 0.137   | 0.476  | 0.114  | 7.934   | 78.169  | 1.901  | 460.9   | 100.000 | 0.000  |
| 0.150   | 0.609  | 0.133  | 8.720   | 79.925  | 1.755  | 506.6   | 100.000 | 0.000  |
| 0.165   | 0.771  | 0.162  | 9.584   | 81.559  | 1.634  | 556.8   | 100.000 | 0.000  |
| 0.181   | 0.951  | 0.180  | 10.00   | 82.460  | 0.901  | 611.9   | 100.000 | 0.000  |
| 0.199   | 1.166  | 0.215  | 10.53   | 83.617  | 1.157  | 672.6   | 100.000 | 0.000  |
| 0.219   | 1.463  | 0.297  | 11.58   | 85.672  | 2.056  | 739.2   | 100.000 | 0.000  |
| 0.241   | 1.786  | 0.322  | 12.72   | 87.659  | 1.987  | 812.4   | 100.000 | 0.000  |
| 0.265   | 2.183  | 0.397  | 13.99   | 89.568  | 1.909  | 892.9   | 100.000 | 0.000  |
| 0.291   | 2.676  | 0.493  | 15.37   | 91.471  | 1.903  | 981.4   | 100.000 | 0.000  |
| 0.320   | 3.294  | 0.618  | 16.89   | 93.236  | 1.765  | 1079    | 100.000 | 0.000  |
| 0.351   | 3.955  | 0.661  | 18.57   | 95.037  | 1.801  | 1185    | 100.000 | 0.000  |
| 0.386   | 4.717  | 0.762  | 20.41   | 96.683  | 1.645  | 1303    | 100.000 | 0.000  |
| 0.424   | 5.539  | 0.823  | 22.43   | 97.801  | 1.119  | 1432    | 100.000 | 0.000  |
| 0.466   | 6.517  | 0.978  | 24.65   | 98.148  | 0.347  | 1571    | 100.000 | 0.000  |
| 0.513   | 7.668  | 1.150  | 27.09   | 98.582  | 0.434  | 1723    | 100.000 | 0.000  |
| 0.563   | 8.922  | 1.254  | 29.78   | 99.159  | 0.577  | 1890    | 100.000 | 0.000  |
| 0.619   | 10.280 | 1.359  | 32.73   | 100.000 | 0.841  | 2073    | 100.000 | 0.000  |
| 0.681   | 12.165 | 1.885  | 35.97   | 100.000 | 0.000  | 2273    | 100.000 | 0.000  |
| 0.748   | 14.254 | 2.089  | 39.53   | 100.000 | 0.000  | 2494    | 100.000 | 0.000  |
| 0.822   | 16.522 | 2.268  | 43.45   | 100.000 | 0.000  | 2800    | 100.000 | 0.000  |
| 0.903   | 18.971 | 2.449  | 47.75   | 100.000 | 0.000  | 3000    | 100.000 | 0.000  |
| 0.993   | 21.389 | 2.418  | 52.48   | 100.000 | 0.000  |         |         |        |
| 1.091   | 23.852 | 2.463  | 57.68   | 100.000 | 0.000  |         |         |        |