



### **Introduction**

DP-01P is specially designed for the measurement of fog drops, its structure can be changed according to customer's requirements.

### **Purpose**

Measure the size distribution of fog drops.

### **Principle**

Uses the principle of laser light scattering to determine particle size distribution.

### **Features**

1. Specially designed for the measurement of fog drops, its structure can be changed according to customer's requirements.
2. Fourier Lens with different focal length be used to change the measuring range.

### **Specifications**

1. Measuring range: 4.5-1500micron (three grades)
2. Repeatability: <3%
3. Measuring duration: 1-2 minutes
4. No. of detectors: 32
5. Light source: He-Ne laser, 2mW, 0.6328micron
6. Operating temperature and humidity: 5-35 degrees centigrade, <85%

### **Measurement report items**

Particle size distribution table & graph, mean diameter, median diameter and specific surface area, etc.

### **Typical report**



激光粒度分析仪

仪器型号: 珠海欧美克仪器有限公司

型号号: 114000033

### 欧美克仪器 粒度测试报告

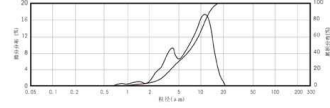
仪器类型: LS900

|             |            |              |                 |
|-------------|------------|--------------|-----------------|
| 样品名称: 油漆研磨料 | 样品编号:      | 样品折射率: 2.60  | 测试日期: 2026-9-20 |
| 名称格式: pdf&e | 介质名称: 水    | 介电常数: 1.33   | 测试时间: 17:21:07  |
| 样品池: 悬片     | 分散剂: 十二烷基  | 黏合剂: 0.04    | 超声时间: 7 min     |
| 文件名: 3.800  | 截断下限: 0.05 | 截断上限: 300.00 | 激光比: 5.6%       |

#### 粒度分布参数

|              |    |              |    |              |    |              |         |    |
|--------------|----|--------------|----|--------------|----|--------------|---------|----|
| D[4.7]: 6.96 | μm | D[5]: 7.96   | μm | D[3.2]: 6.47 | μm | S: 5.5       | A: 1.18 | μm |
| D[0.3]: 0.00 | μm | D[0.1]: 4.44 | μm | D[75]: 11.06 | μm | D[90]: 13.31 | μm      |    |

#### 粒度分布图



#### 粒径分布表

| 粒径 (μm) | 微分分布 (%) | 累积分布 (%) | 粒径 (μm) | 微分分布 (%) | 累积分布 (%) | 粒径 (μm) | 微分分布 (%) | 累积分布 (%) |
|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| 0.05    | 0.00     | 0.00     | 0.05    | 0.00     | 0.00     | 0.05    | 0.00     | 0.00     |
| 0.06    | 0.00     | 0.00     | 0.06    | 0.00     | 0.00     | 0.06    | 0.00     | 0.00     |
| 0.07    | 0.00     | 0.00     | 0.07    | 0.00     | 0.00     | 0.07    | 0.00     | 0.00     |
| 0.08    | 0.00     | 0.00     | 0.08    | 0.00     | 0.00     | 0.08    | 0.00     | 0.00     |
| 0.09    | 0.00     | 0.00     | 0.09    | 0.00     | 0.00     | 0.09    | 0.00     | 0.00     |
| 0.10    | 0.00     | 0.00     | 0.10    | 0.00     | 0.00     | 0.10    | 0.00     | 0.00     |
| 0.12    | 0.00     | 0.00     | 0.12    | 0.00     | 0.00     | 0.12    | 0.00     | 0.00     |
| 0.14    | 0.00     | 0.00     | 0.14    | 0.00     | 0.00     | 0.14    | 0.00     | 0.00     |
| 0.16    | 0.00     | 0.00     | 0.16    | 0.00     | 0.00     | 0.16    | 0.00     | 0.00     |
| 0.18    | 0.00     | 0.00     | 0.18    | 0.00     | 0.00     | 0.18    | 0.00     | 0.00     |
| 0.20    | 0.00     | 0.00     | 0.20    | 0.00     | 0.00     | 0.20    | 0.00     | 0.00     |
| 0.22    | 0.00     | 0.00     | 0.22    | 0.00     | 0.00     | 0.22    | 0.00     | 0.00     |
| 0.25    | 0.00     | 0.00     | 0.25    | 0.00     | 0.00     | 0.25    | 0.00     | 0.00     |
| 0.28    | 0.00     | 0.00     | 0.28    | 0.00     | 0.00     | 0.28    | 0.00     | 0.00     |
| 0.32    | 0.00     | 0.00     | 0.32    | 0.00     | 0.00     | 0.32    | 0.00     | 0.00     |
| 0.36    | 0.00     | 0.00     | 0.36    | 0.00     | 0.00     | 0.36    | 0.00     | 0.00     |
| 0.40    | 0.00     | 0.00     | 0.40    | 0.00     | 0.00     | 0.40    | 0.00     | 0.00     |
| 0.45    | 0.00     | 0.00     | 0.45    | 0.00     | 0.00     | 0.45    | 0.00     | 0.00     |
| 0.50    | 0.00     | 0.00     | 0.50    | 0.00     | 0.00     | 0.50    | 0.00     | 0.00     |
| 0.56    | 0.00     | 0.00     | 0.56    | 0.00     | 0.00     | 0.56    | 0.00     | 0.00     |
| 0.63    | 0.00     | 0.00     | 0.63    | 0.00     | 0.00     | 0.63    | 0.00     | 0.00     |
| 0.71    | 0.00     | 0.00     | 0.71    | 0.00     | 0.00     | 0.71    | 0.00     | 0.00     |
| 0.80    | 0.00     | 0.00     | 0.80    | 0.00     | 0.00     | 0.80    | 0.00     | 0.00     |
| 0.90    | 0.00     | 0.00     | 0.90    | 0.00     | 0.00     | 0.90    | 0.00     | 0.00     |
| 1.00    | 0.00     | 0.00     | 1.00    | 0.00     | 0.00     | 1.00    | 0.00     | 0.00     |
| 1.12    | 0.00     | 0.00     | 1.12    | 0.00     | 0.00     | 1.12    | 0.00     | 0.00     |
| 1.25    | 0.00     | 0.00     | 1.25    | 0.00     | 0.00     | 1.25    | 0.00     | 0.00     |
| 1.40    | 0.00     | 0.00     | 1.40    | 0.00     | 0.00     | 1.40    | 0.00     | 0.00     |
| 1.56    | 0.00     | 0.00     | 1.56    | 0.00     | 0.00     | 1.56    | 0.00     | 0.00     |
| 1.75    | 0.00     | 0.00     | 1.75    | 0.00     | 0.00     | 1.75    | 0.00     | 0.00     |
| 1.96    | 0.00     | 0.00     | 1.96    | 0.00     | 0.00     | 1.96    | 0.00     | 0.00     |
| 2.20    | 0.00     | 0.00     | 2.20    | 0.00     | 0.00     | 2.20    | 0.00     | 0.00     |
| 2.45    | 0.00     | 0.00     | 2.45    | 0.00     | 0.00     | 2.45    | 0.00     | 0.00     |
| 2.75    | 0.00     | 0.00     | 2.75    | 0.00     | 0.00     | 2.75    | 0.00     | 0.00     |
| 3.10    | 0.00     | 0.00     | 3.10    | 0.00     | 0.00     | 3.10    | 0.00     | 0.00     |
| 3.50    | 0.00     | 0.00     | 3.50    | 0.00     | 0.00     | 3.50    | 0.00     | 0.00     |
| 3.95    | 0.00     | 0.00     | 3.95    | 0.00     | 0.00     | 3.95    | 0.00     | 0.00     |
| 4.45    | 0.00     | 0.00     | 4.45    | 0.00     | 0.00     | 4.45    | 0.00     | 0.00     |
| 5.00    | 0.00     | 0.00     | 5.00    | 0.00     | 0.00     | 5.00    | 0.00     | 0.00     |
| 5.60    | 0.00     | 0.00     | 5.60    | 0.00     | 0.00     | 5.60    | 0.00     | 0.00     |
| 6.25    | 0.00     | 0.00     | 6.25    | 0.00     | 0.00     | 6.25    | 0.00     | 0.00     |
| 7.00    | 0.00     | 0.00     | 7.00    | 0.00     | 0.00     | 7.00    | 0.00     | 0.00     |
| 7.85    | 0.00     | 0.00     | 7.85    | 0.00     | 0.00     | 7.85    | 0.00     | 0.00     |
| 8.80    | 0.00     | 0.00     | 8.80    | 0.00     | 0.00     | 8.80    | 0.00     | 0.00     |
| 9.90    | 0.00     | 0.00     | 9.90    | 0.00     | 0.00     | 9.90    | 0.00     | 0.00     |
| 11.2    | 0.00     | 0.00     | 11.2    | 0.00     | 0.00     | 11.2    | 0.00     | 0.00     |
| 12.7    | 0.00     | 0.00     | 12.7    | 0.00     | 0.00     | 12.7    | 0.00     | 0.00     |
| 14.5    | 0.00     | 0.00     | 14.5    | 0.00     | 0.00     | 14.5    | 0.00     | 0.00     |
| 16.5    | 0.00     | 0.00     | 16.5    | 0.00     | 0.00     | 16.5    | 0.00     | 0.00     |
| 18.8    | 0.00     | 0.00     | 18.8    | 0.00     | 0.00     | 18.8    | 0.00     | 0.00     |
| 21.5    | 0.00     | 0.00     | 21.5    | 0.00     | 0.00     | 21.5    | 0.00     | 0.00     |
| 24.5    | 0.00     | 0.00     | 24.5    | 0.00     | 0.00     | 24.5    | 0.00     | 0.00     |
| 28.0    | 0.00     | 0.00     | 28.0    | 0.00     | 0.00     | 28.0    | 0.00     | 0.00     |
| 32.0    | 0.00     | 0.00     | 32.0    | 0.00     | 0.00     | 32.0    | 0.00     | 0.00     |
| 36.5    | 0.00     | 0.00     | 36.5    | 0.00     | 0.00     | 36.5    | 0.00     | 0.00     |
| 41.5    | 0.00     | 0.00     | 41.5    | 0.00     | 0.00     | 41.5    | 0.00     | 0.00     |
| 47.0    | 0.00     | 0.00     | 47.0    | 0.00     | 0.00     | 47.0    | 0.00     | 0.00     |
| 53.0    | 0.00     | 0.00     | 53.0    | 0.00     | 0.00     | 53.0    | 0.00     | 0.00     |
| 60.0    | 0.00     | 0.00     | 60.0    | 0.00     | 0.00     | 60.0    | 0.00     | 0.00     |
| 68.0    | 0.00     | 0.00     | 68.0    | 0.00     | 0.00     | 68.0    | 0.00     | 0.00     |
| 77.0    | 0.00     | 0.00     | 77.0    | 0.00     | 0.00     | 77.0    | 0.00     | 0.00     |
| 87.0    | 0.00     | 0.00     | 87.0    | 0.00     | 0.00     | 87.0    | 0.00     | 0.00     |
| 98.0    | 0.00     | 0.00     | 98.0    | 0.00     | 0.00     | 98.0    | 0.00     | 0.00     |
| 110     | 0.00     | 0.00     | 110     | 0.00     | 0.00     | 110     | 0.00     | 0.00     |
| 125     | 0.00     | 0.00     | 125     | 0.00     | 0.00     | 125     | 0.00     | 0.00     |
| 140     | 0.00     | 0.00     | 140     | 0.00     | 0.00     | 140     | 0.00     | 0.00     |
| 158     | 0.00     | 0.00     | 158     | 0.00     | 0.00     | 158     | 0.00     | 0.00     |
| 178     | 0.00     | 0.00     | 178     | 0.00     | 0.00     | 178     | 0.00     | 0.00     |
| 200     | 0.00     | 0.00     | 200     | 0.00     | 0.00     | 200     | 0.00     | 0.00     |

标准: \_\_\_\_\_ 检测: \_\_\_\_\_