

Sieve Size Chart (Mesh to Micron Conversion)

This sieve size chart provides standard mesh sizes and corresponding micron values used in laboratory particle size analysis and testing. It is a valuable reference tool for engineers, researchers, and quality control professionals across various industries.



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Understanding Sieve Specifications



Mesh Size Definition

Number of openings per linear inch in the sieve screen



Aperture Size

Expressed in microns (μm), representing the actual opening dimensions



Industry Standards

Compliant with ASTM and ISO testing protocols

These standardized measurements ensure consistent particle size analysis across laboratory and industrial settings, enabling reproducible results and quality control.

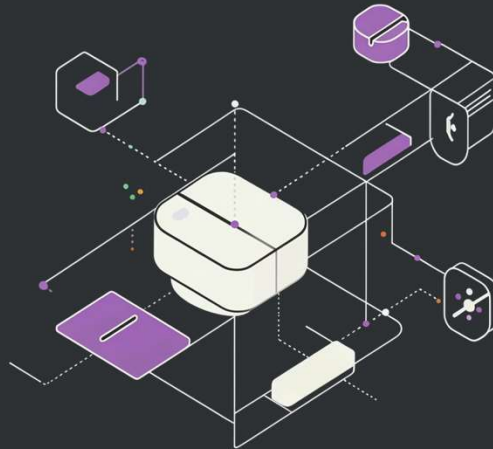


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Mesh to Micron Conversion Reference

| Mesh Size | Micron (μm) |
|-----------|--------------------------|
| 4 | 4750 |
| 5 | 4000 |
| 10 | 2000 |
| 20 | 850 |
| 40 | 425 |
| 60 | 250 |
| 80 | 180 |
| 100 | 150 |
| 120 | 125 |
| 150 | 106 |
| 170 | 90 |
| 200 | 75 |
| 230 | 63 |
| 270 | 53 |
| 325 | 45 |
| 400 | 37 |
| 500 | 25 |

Applications Across Industries



Pharmaceutical Sector

Powder characterization for tablet formulation and quality assurance in drug manufacturing processes.

Chemical Industry

Particle size distribution analysis for catalysts, pigments, and specialty chemicals

Food Processing

Quality control of powders, flours, and particulate ingredients for consistency

Construction Materials

Aggregate sizing for concrete mixtures and asphalt specifications



Technical Notes

Mesh Size Interpretation

The mesh number indicates the number of openings per linear inch in the sieve screen. Higher mesh numbers represent finer particle size classifications.

Testing Standards

These values align with ASTM E11 and ISO 3310 standards for sieve analysis, ensuring international consistency.

Micron Measurement

One micron (μm) equals one millionth of a meter. This metric unit precisely defines the aperture size of each sieve opening.

Practical Considerations

Mesh size is widely used in pharmaceutical, chemical, food, and construction industries for particle size classification and quality control applications.

Quality Particle Analysis

Accurate sieve sizing enables reliable particle size analysis for research and industrial applications.

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