

PARTICLE SIZE

ANALYSIS

www.ttilabs.net



Tti Testing Laboratories

ISO/IEC 17025 Accredited Testing Laboratory
ISO/IEC 17020 Accredited Inspection Body
CPSC Accredited Testing Laboratory
EPA Certified Testing Laboratory



ABOUT Tti

Tti is a world class, globally recognized, ISO/IEC 17025 accredited testing facility and ISO/IEC 17020 accredited inspection body having the honor of being the first lab approved by US consumer product safety commission (CPSC) for consumer safety testing in Pakistan. Tti is also approved from Punjab Environmental Protection Agency as an EPA certified lab. Tti has a country-wide network of Labs and customer centers including a state of the art purpose built main testing facility in Lahore followed by liaison offices in Karachi, Faisalabad and Sialkot. We at Tti have been in service since 1995 serving a wide range of Industries including Environmental Protection, the government sector, Textiles, Leather, Chemical, Oil & Gas, Food, Paint/Coatings, Cosmetics & Pharmaceutical. We provide our clients a one stop comprehensive spectrum testing services which helps them add more value to their complex Supply chain, Regulatory Compliance and Brand Integrity.

WHAT IS PARTICLE SIZE ANALYSIS?

Particle size analysis, particle size measurement, or simply particle sizing is the collective name of the technical procedures, or laboratory techniques which determines the size range, and/or the average, or mean size of the particles in a powder or liquid sample. Used to characterize the particle size distribution of particles in a given sample.

The particle size distribution of active ingredients and excipients is an important physical characteristic of the materials used to create desired products. The size, distribution and shape of the particles can affect bulk properties, product performance, processability, stability and appearance of the end product.

Particles Size Analysis is widely used by R & D and QA departments.

OUR TESTING METHODOLOGY

Laser Diffraction:

This is the most popular particle size analysis technique used commercially. The Precision, Analysis speed and ease-of-use of this technique makes it the popular choice for most applications.

- Results up to accuracy of $\pm 0.6\%$
- Dynamic range from 10 nanometers – 5000 microns for both WET and DRY Analysis.
- Water and Solvent based WET Analysis.
- Suitable for Powders, Suspensions, Emulsions, Pastes, Gels and Creams.
- Required Sample Amount:
25g to 500g.



APPLICATIONS

Food

Paints, Coatings
& Printing Inks

Pharmaceutical

Cosmetics



Coffee



Pigments



Powders



Lipsticks



Sauces



Calcium Carbonate



Eye Drops



Scrubs



Flour



Powder Coatings



Drugs



Foundation



Mayonnaise



Iron Oxides



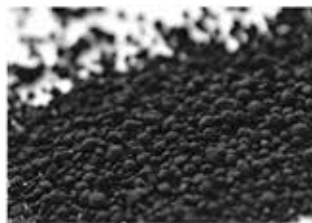
Aerosols



Mascara



Powder Milk



Carbon Black



Creams



Baby Powder

BENEFITS OF PARTICLE SIZE ANALYSIS

• Cost Saving	• Formulation	• Enhanced Solubility	• Drug design and delivery
• Processability	• Improved Texture	• Rate of Chemical Reactions	• Smell & Taste
• Improved Strength	• Product Appearance	• Better Results	• Packing Density



Our Services

Textile Testing
 Apparel Testing
 Leather Testing
 Environmental Testing
 Petroleum Testing
Paints, Coatings and Inks
 Restricted Substances Testing
 Inspections and Audits
 Trainings



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 EPA Certified Testing Laboratory

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