



COMPREHENSIVE MATERIAL ANALYSIS

for optimizing microwave energy applications



Dielectric property data is necessary to determine the power requirements and performance of industrial microwave systems.

It is an essential input for electromagnetic and thermal simulation and modeling, which is another engineering service offered by Crescend Technologies. We offer high accuracy and fast turn-around. Crescend Technologies provides precise dielectric property testing to ensure your industrial microwave systems operate at peak efficiency. Our advanced testing empowers businesses to optimize heating, drying, and processing solutions with confidence.

What We Test



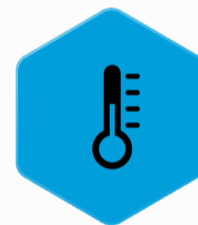
Materials

Fine powders, soft solids, hard flat solids, and liquids.



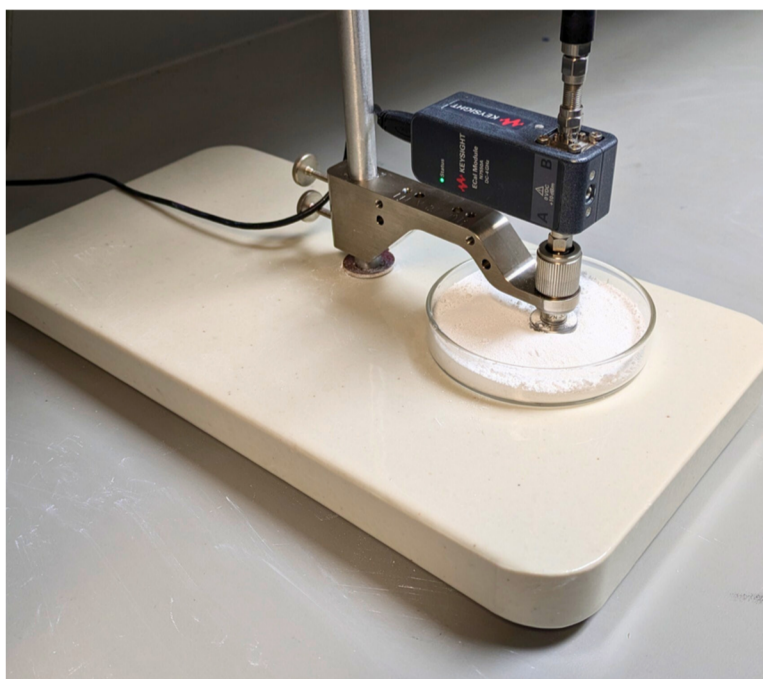
Frequency

Testing available across 200 MHz to 4.5 GHz.



Temperature Range

-40°C to +200°C for real-world accuracy.



Why Choose Crescend?

✓ Cutting-Edge Technology

Our material laboratory is equipped with the latest high performance dielectric test system from Keysight Technologies. Its basic components are a dedicated E5063 Vector Network Analyzer, the N1500A Materials Measurement Software Suite, and the N1501A High Temperature Dielectric Probe. More information about this is available on the Keysight web site. All of our instruments have NIST-traceable calibration.

✓ Comprehensive Solutions

Dielectric testing compliments Crescend's COMSOL electromagnetic and thermal modeling services, providing a full spectrum of analysis for industrial applications.

✓ Expert Support

Expertise ensures actionable insights that optimize your material handling and system performance.