

Halogen Moisture Analyzer Precision Digital Laboratory Moisture Balance

Item Number: DS14



Introduction

Achieve rapid and highly accurate thermogravimetric analysis with this advanced halogen moisture analyzer. Built with 110g capacity, 1mg precision, 40°C to 199°C temperature range, LCD display, and 15-group memory, it provides dependable quality control across industrial laboratory applications.

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Application	Description	Key Benefit
Battery Slurry & Cathode Active Materials	Measuring residual solvent and moisture content in lithium-ion battery cathode/anode powders, binders, and wet slurries.	Prevents electrode foil bubbling, improves adhesion, and eliminates moisture-induced cell degradation in finished battery assemblies.
Powder Metallurgy & Sintered Metals	Verifying dry conditions of fine metallic powders and binder formulations prior to die compaction and sintering operations.	Eliminates steam micro-fissuring and void formation during high-temperature consolidation processes.
Advanced Technical Ceramics	Evaluating moisture levels in spray-dried ceramic granulates, oxide powders, and green body formulations.	Ensures consistent green body compaction density and prevents warping or cracking during kiln firing.
Polymers & Engineering Resins	Checking moisture in hygroscopic polymer pellets (polyamides, PET, polycarbonates) prior to injection molding or extrusion.	Prevents cosmetic surface splay, structural hydrolytic degradation, and mechanical failure in molded components.
Chemical Synthesis & Bulk Reagents	Routine batch testing of chemical salts, fine powders, crystalline compounds, and organic intermediates.	Accelerates batch release cycles with rapid 15-recipe method recall and consistent 1mg reading precision.
Food Quality & Agricultural Grains	Determining free and bound moisture in flours, starches, crushed seeds, dehydrated food goods, and agricultural feed.	Complies with strict commercial shelf-life requirements while reducing laboratory drying oven wait times.

Specification Parameter	Value / Configuration (DS14)
Item Number	DS14
Maximum Weighing Capacity	110 g
Readability (Resolution)	1 mg (0.001 g)
Heating Technology	Fast-Response Halogen Lamp
Sample Pan Diameter	Φ 90 mm
Display Technology	High-Contrast Digital LCD
Temperature Setting Range	40°C to 199°C
Timer Setting Range	1 min to 99 min
ATRO Measurement Mode 1	100% to 999%
ATRO Measurement Mode 2	0% to 999%
Internal Memory Capacity	15 Historical Test Groups / Parameter Sets