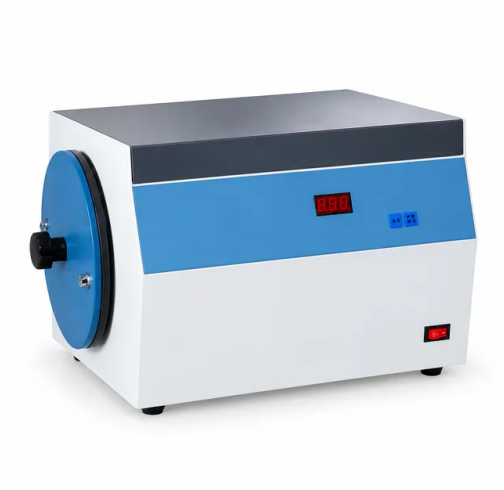
Activated Carbon Abrasion Resistance Tester Granular Carbon Mechanical Attrition Strength Testing Apparatus

Item Number: KT-JTT



Introduction

Evaluate granular activated carbon structural integrity with this precision abrasion resistance tester. Manufactured to GB/T 30202.3-2013 standards, it features digital LED controls, steady drum speed, and durable construction for industrial coal-based carbon quality testing.

Learn More

Application	Description	Key Benefit
Desulfurization & Denitrification Carbon QC	Testing coal-based granular carbon designed for thermal power plant flue gas treatment.	Ensures carbon media withstand high-velocity gas flows without breaking down into fine dust.
Gas Purification & Solvent Recovery	Evaluating activated carbon pellets used in packed beds for VOC capture and air purification.	Prevents bed settling and airflow channeling caused by mechanical particle degradation.
Municipal & Industrial Water Treatment	Assessing attrition resistance of granular carbon installed in deep-bed liquid filtration columns.	Minimizes backwash loss and structural erosion during fluidization and backwashing cycles.
Carbon Manufacturing & Production QA	Conducting continuous batch testing during activated carbon thermal activation and extrusion processes.	Provides rapid feedback for optimizing binder formulations, kiln temperatures, and carbon hardness.
Material Receipt Inspection	Performing incoming quality checks for industrial procurement teams purchasing bulk carbon shipments.	Verifies vendor specifications compliance before loading material into expensive industrial reactors.
R&D Carbon Formulation Studies	Quantifying the mechanical strength improvements of novel binder additives or novel feedstocks.	Yields precise, repeatable wear rate data for benchmarking experimental activated carbon samples.

Specification Parameter	Value / Detail
Product Identifier	KT-JTT
Governing Test Standard	GB/T 30202.3-2013 (Coal-based granular activated carbon for desulfurization and denitrification)
Drum Rotation Speed	50 ± 2 r/min
Display Interface	LED Digital Display
Default Time Setting	20 min
Adjustable Time Range	0.1 min to 540 min
Input Power Supply	220 V AC, 50 Hz
Motor Input Power	80 W
Testing Drum Inner Diameter	200 mm
Testing Drum Length	70 mm
Internal Baffle Height	30 mm