

DIETERT Foundry Testing Equipment, Inc.

This is a general list of sand tests that are available for testing at our laboratory. Other Tests not listed and are special projects can also be performed by us and reported on our letterhead. All testing performed by our lab shall be treated as confidential and will not be discussed with other parties. **A Minimum Order is required, Call For Pricing!**

Test Description	Test Req' d
Moisture	
Moisture on Bentonite, Pre-Mixes	
Compactability	
Bulk Density 2" x 2" Specimen Weight	
Permeability 2" x 2"	
Base Permeability	
Green Compression	
Dry Compression	
Green Deformation	
Splitting Strength	
Green Hardness "B"	
Friability	
Cone Jolt Toughness	
Green Tensile	
Green Shear	
Dry Shear	
Durability of Sand Grains	
Re-Tempering of Molding Sand (Hobart)	
Methylene Blue Requirement	
Molding Sand	
Equivalent Materials Test	
Durability @1,200 °F	
AFS Clay	
AFS Grain Fineness No.	
Loss-on ignition @ 1,800 °F	
Loss-on ignition (after wash)	
Volatile Matter @ 900 °F or 1,200 °F	
Silica Program Test Series	
Green Properties	
Complete AFS Clay Package	
Volatiles	
Air Dried Fineness No.	
Wet Tensile Test	
Methylene Blue Test	
Equivalent Materials Test	
Silica Program	
53 Micron Wash	
Firing of each sample	
Acid Wash	
Specific Gravity	
Silica Program	
53 Micron Wash	
Firing	
Acid Wash	
Specific Gravity	

Test Description	Test Req' d	
Re-tempering of Molding Sand (Hobart lab mixer)		
Phosphoric Acid Digestion		
Gas Evolution		
Soluble Calcium, Soluble Magnesium And Leachable Calcium		
Ammoniacal Nitrogen		
Less than 10		
11 – 20		
21 and over		
Hot Compressive Strength (W/own Atmosphere Accessory)		
Hot Compressive Strength, (PSI) with Deformation		
Hot Shell Tensile, (PSI)		
Cold Shell Tensile, (PSI) (Time & Temperature)		
Melt Point (Shell Sand) °F		
Bentonite Mixes 20 lb Batch size		
Core Sand Mixes 6 lb sizes		
Acid Demand Value		
Specific Surface Area (Washed and Dried)		
Collapsibility (W/Own Atmosphere Accessory)		
Expansion		
Equilibrium (Raise 10 °F / Minute)		
Shock (Set Temperature)		
Own Atmosphere (Set up charge)		
Shock Load		
Restraining Load		
Sulfur (Set up charge)		
Hot Distortion		
On Prepared Specimens		
With Specimen Preparations		
Core Tensile or Disc Transverse Strength		
On Prepared Specimens		
With Specimen Preparations		
Work Time / Strip Time (No-Bake Method)		
Tensile Strength (curve), Hot Box (temperature & Time / Sample)		
Core Hardness		
Bromoform Extraction		

DIETERT Foundry Testing Equipment, Inc.

Please submit all samples to:

DIETERT Foundry Testing Equipment, Inc.

9190 Roselawn
Detroit, Michigan 48204

Tel: (313) 491-4680
Fax: (313) 491-5210

Website: www.dietertlab.com
E-mail: customerservice@dietertlab.com

Please fill out page both pages and include these sheets to help us to track your samples and to better determine the type of testing you desired completed:

Company Name: _____

Contact Person: _____

Address: _____

Telephone: _____

Fax: _____

E-mail: _____

Customer PO Number: _____

Authorizing Signature: _____

Title / position: _____