



# Material Flow Solutions, Inc.

*With 30 years consulting experience, we offer solutions to material flow problems*

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## Testing Services

### Available Tests:

Cost per  
unique material

Standard Material Properties – bulk density, permeability, strength, friction angle	
Ambient conditions	\$ 1500.00
100°F – 268°F (38°C – 131°C)	\$ 1800.00
270°F – 500°F (132°C – 260°C)	\$ 2500.00
Room temperature @ controlled % humidity	\$ 1650.00
Bulk Density and Permeability only	
Ambient conditions	\$ 400.00
100°F – 268°F (38°C – 131°C)	\$ 500.00
Strength only	
Ambient conditions	\$ 800.00
100°F – 268°F (38°C – 131°C)	\$ 1000.00
270°F – 500°F (132°C – 260°C)	\$ 1300.00
Wall Friction Angle only	
Ambient conditions	\$ 300.00
100°F – 268°F (38°C – 131°C)	\$ 500.00
270°F – 500°F (132°C – 260°C)	\$ 700.00
Degradation Tendency	
Impact degradation	\$ 2500.00
Stress/Strain degradation	\$ 2500.00
Segregation Tendency	\$ 1700.00
Rheology/Viscosity Measurement	
H2O liquid at ambient conditions	\$ 1500.00
H2O liquid at elevated temperature      100°F – 176°F (38°C – 80°C)	\$ 1750.00
Non-H2O liquid at ambient conditions	\$ 1750.00
Non-H2O liquid at elevated temperature      100°F – 176°F (38°C – 80°C)	\$ 2000.00
Population Balance Modeling	\$ 3800.00
Particle Size Analysis	\$ 300.00
Thermal Conductivity Analysis	\$ 600.00
Droplet Absorption Rate	\$ 500.00
ASTM Liquid Limit Test	\$ 500.00
ASTM Plastic Limit Test	\$ 400.00
Moisture Sorption Isotherms	\$ 1800.00
Wear Test	Call for quote
Prototype Development	Call for quote

**Our testing procedures can be tailored to meet your plant's specific needs**