

DEPARTMENT NAME

Materials Science & Engineering

VICE-PRESIDENT AREA

DESCRIPTION OF	UNIT OF	FY 11/12	CUSTOMERS BEING
COMMODITY OR SERVICE	BILLING	RATE	SERVED
Analytical Testing Laboratory		40==0	
Sample Preparation	per hour	\$85.50	Industrial companies
Extractions (Soxhlet)	per sample	\$85.50	Industrial companies
Extractions (Supercritical) - Instrument	per instr. hour	\$85.50	Industrial companies
Extractions (Supercritical) - Preparation	per sample	\$21.50	Industrial companies
Extractions (ASE) - Organic Solvent	per sample	\$57.00	Industrial companies
Extractions (ASE) - Acqueous	per sample	\$85.50	Industrial companies
Data Analysis	per hour	\$149.00	Industrial companies
FTIR - Instrument (Avg 20 Min/Sample)	per instr. hour	\$134.00	Industrial companies
FTIR Microscopy - Instrument	per instr. hour	\$176.75	Industrial companies
(Avg 20 Min/Sample)			
GC/MS - Instrument (Avg 40 Min/Sample)	per instr. hour	\$149.00	Industrial companies
Chromatography GC, SFC, HPLC - Instrument	per instr. hour	\$85.50	Industrial companies
(Excludes Method Development)			
NMR - Operator	per hour	\$149.00	Industrial companies
NMR - Instrument	per instr. hour	\$21.50	Industrial companies
Thermal Analysis TGA - Instrument	per instr. hour	\$106.00	Industrial companies
(Avg 60 Min/Sample)			
Thermal Analysis DSC - Instrument	per instr. hour	\$106.00	Industrial companies
(Avg 30 Min/Sample)			
Thermal Analysis MDSC - Instrument	per instr. hour	\$106.00	Industrial companies
(Avg 60 Min/Sample)	•		•
Thermal Analysis DMTA - Instrument	per instr. hour	\$134.00	Industrial companies
(Avg 60 Min/Sample)	•		•
Formaldehydeh/Benze Trials	daily	\$3,294.00	Industrial companies
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Physical Testing Laboratory			
Bursting (Mullen) - ASTM D-3786	per sample	\$55.25	Industrial companies
Bursting (Ball) - ASTM D-3787	per sample	\$55.25	Industrial companies
Air Permeability (FX 3300) - D-0737	per sample	\$31.50	Industrial companies
Abrasion - Stohl (Flex) D-3885	per sample	\$47.50	Industrial companies
Abrasion - Stohl (Diaphragm) D-3886	per sample	\$47.50	Industrial companies
Abrasion - Yarn - CTT	per sample	\$65.50	Industrial companies
Yarn Twist (ILS) D-1423	per sample	\$42.25	Industrial companies
Tear Test (D-1424) Elmendorf	per sample	\$42.25	Industrial companies
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Uster (Yarn Evenness) D-1425	per sample	\$55.25	Industrial companies
Skein Break D-1578	per sample	\$47.50	Industrial companies
Tensile (Grab) Warp & Filling - D-5034	per sample	\$55.25	Industrial companies
Tensile (Modified Grab) Warp & Filling - D-5034	per sample	\$55.25	Industrial companies
Single End Yarn Break - Statimat 11 - D-2256	per sample	\$55.25	Industrial companies
Single End Yarn Break - Instron D-2256	per sample	\$55.25	Industrial companies
Tear Test (Tounge) D-2261	per sample	\$55.25	Industrial companies
Tear Test (Trapezoid) D-5587	per sample	\$55.25	Industrial companies
Pilling (Rotary Tumble) - 3 Repeats D-3512	per sample	\$47.50	Industrial companies
Weight - D-3776	per sample	\$31.50	Industrial companies
Single Fiber Break D-3822	per sample	\$79.00	Industrial companies
AOS (EOS) Geotextile	per sample	\$79.00	Industrial companies
Yarn Appearance (EIB) D2255	per sample	\$31.50	Industrial companies
Fabric Width D-3774	per sample	\$31.50	Industrial companies
Tensile 1" Strip (Instron or Scott) D-5035	per sample	\$55.25	Industrial companies
Fabric (Construction Ends/in.,	per sample	\$55.25	Industrial companies
Picks/in., etc., D-3775)	p -	¥****	
Abrasion - Taber (Cost Plus Wheels)	per sample	\$119.00	Industrial companies
Abrasion (Wyzenbeek) D-4157	per sample	\$79.00	Industrial companies
Moisture Regain/Content D-2495	per sample	\$55.25	Industrial companies
Resistance to Slippage of Yarns in	per sample	\$79.00	Industrial companies
Woven Fabric - D434			·
Yarn Shrinkage (Boiling Water) D-2259	per sample	\$79.00	Industrial companies
Yarn Inspection (Pulled from fabric)	per sample	\$16.50	Industrial companies
Color Fastness (Crocking) AATCC 8:	per sample	\$31.50	Industrial companies
Colorfastness to Light (Carbon-Arc Lamp)	per sample	\$61.25	Industrial companies
16 AATCC Sec. 1 D			
PH % - 81	per sample	\$31.50	Industrial companies
Dimensional Change (Shrinkage)	per sample	\$158.25	Industrial companies
3 Repeats/Sample - 135 AATCC			
Fabric Durable Press Rating	per sample	\$158.25	Industrial companies
3 Repeats - 124 AATCC			
Hydrostatic Head (FX 3000) - 127 AATCC	per sample	\$47.50	Industrial companies
Soil Release (Oily Stain Method) - 130 AATCC	per sample	\$95.00	Industrial companies



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Colorfastness to laundering (Home &	per sample	\$396.75	Industrial companies
Comm: Accirtd) - AATCC 61 - 3A Test	per sample	φ390.73	industrial companies
Water Repellency - Spray Test - 22 AATCC	per sample	\$39.75	Industrial companies
Water Repellency - IPA/Water AATCC - 42	per sample	\$47.50	Industrial companies
Thickness (Shirley) FTM 5030	per sample	\$31.50	Industrial companies
Flammability (45 degree Angle) FTM		\$47.50	Industrial companies
5908 ASTM- D-1230	per sample	Φ47.50	industrial companies
	n o r o o manlo	¢47.50	Industrial companies
Verticle Flammability ASTM D-6413	per sample	\$47.50	Industrial companies
Latex Trials	per day	\$992.00	Industrial companies
Colorfastness (Washing)	per sample	\$79.50	Industrial companies
Barre' (Redye)	per sample	\$197.25	Industrial companies
Barre' (Yarn Pull & Weigh)	per sample	\$118.50	Industrial companies
Scour Greige Goods & Dye	per sample	\$237.00	Industrial companies
Barre' (Yarn Pull & ReKnit)	per sample	\$118.50	Industrial companies
Yarn Denier/Count by Weight	per sample	\$24.00	Industrial companies
Fiber Denier (Microscopic Measurement)	per sample	\$47.50	Industrial companies
Uster AFIS (Neps, Length & Diameter & Trash)	per sample	\$47.50	Industrial companies
MacBeth Color Eye - Spectrophotometer	per sample	\$95.00	Industrial companies
HVI (Per Sample) ASTM D-4605	per sample	\$2.80	Industrial companies
Liquid Wicking - INDA 10-70-3	per sample	\$31.50	Industrial companies
Photomicrograph - Polaroid	per picture	\$19.35	Industrial companies
Photomicrograph - 35 MM	per picture	\$27.10	Industrial companies
Fabric Streak Analyzer (Replicas)	per sample	\$25.40	Industrial companies
Image Analysis	per hour	\$99.50	Industrial companies
Fabric Contamination Determination	per sample	\$79.50	Industrial companies
(Chem, Micro, Photo, etc.)			
Desize Yarn	per hour	\$79.50	Industrial companies
Yarn Tension	per sample	\$95.00	Industrial companies
Fusion of Fibers	per sample	\$47.50	Industrial companies
Crimp Per Inch (Fiber)	per sample	\$31.50	Industrial companies
Cross-Sections (Fibers - Microtome Method)	per sample	\$55.25	Industrial companies
% Take-Up (Ground & Pile)	per sample	\$39.75	Industrial companies
Yarn Contraction (Per Directions)	per sample	\$39.75	Industrial companies
Fiber Staple Length	per sample	\$31.50	Industrial companies
Yarn Filament Count	per sample	\$39.75	Industrial companies



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DESCRIPTION OF COMMODITY OR SERVICE	UNIT OF BILLING	FY 11/12 RATE	CUSTOMERS BEING SERVED
Thickness - SAE J-1355	per sample	\$31.50	Industrial companies
Sewability of Woven Cloth; Seam	per sample	\$66.00	Industrial companies
efficiency Method FTM 5110			
Loop Strength ASTM D2256-5 (YARN)	per sample	\$55.25	Industrial companies
Pore Distribution & Bubble Point (PMI)	per sample	\$215.00	Industrial companies
General Laboratory Usage	daily	\$660.25	Industrial companies
Non-Wovens Laboratory Usage (Rando Machine)(except fiberglas)	daily	\$1,123.00	Industrial companies
Hills Extruder (Room 236 Sirrine) with technical assistance (single extruder includes winding & drawing) (1/2 Day Min.)	daily	\$1,980.00	Industrial companies
James Extruder (Room 305 Rhodes) double extruder without winding and without drawing (1/2 Day Min.)	daily	\$1,319.25	Industrial companies
Atomic Force Microscopy	per hour	\$110.00	Industrial companies
Surface tension of different liquids	per hour	\$65.00	Industrial companies
Surface energy of planar substrates, fibers and contact angles	per hour	\$65.00	Industrial companies
Rheological analysis of complex fluids	per hour	\$56.00	Industrial companies
Characterization of compression properties of	per hour	\$71.00	Industrial companies
fiber and films (Kawabata compression tester)	p = 1.10 a.1	***************************************	
High speed imaging of droplet sreadling and absorption into fibrous materials	per hour	\$98.00	Industrial companies
Characterization of magneto-optical properties	per hour	\$73.00	Industrial companies
of transparent materials (verdet constants)	•	·	•
CERAMICS & MATERIALS ENGINEERING			
X-ray Diffraction(room temperature)	per sample	\$132.00	Industrial companies
X-ray Diffraction(elevated Temperature)	per hour	\$66.00	Industrial companies
Total Particle Size Analysis	per sample	\$197.25	Industrial companies
PSD(Horiba)	per sample	\$197.25	Industrial companies
Thermogravimetric Analysis	per sample	\$197.25	Industrial companies
Differential Thermal Analysis	per sample	\$197.25	Industrial companies
Dilatometry(air)	per sample	\$132.00	Industrial companies
Dilatometry(controlled atmosphere)	per sample	\$263.75	Industrial companies



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Academic Affairs

DESCRIPTION OF COMMODITY OR SERVICE	UNIT OF BILLING	FY 11/12 RATE	CUSTOMERS BEING SERVED
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X-ray Diffraction(room temperature)	per sample	\$33.10	Faculty and CU research staff
X-ray Diffraction(elevated Temperature)	per hour	\$13.25	Faculty and CU research staff
Total Particle Size Analysis	per sample	\$66.00	Faculty and CU research staff
PSD(Horiba)	per sample	\$66.00	Faculty and CU research staff
Thermogravimetric Analysis	per sample	\$66.00	Faculty and CU research staff
Differential Thermal Analysis	per sample	\$66.00	Faculty and CU research staff
Dilatometry(air)	per sample	\$66.00	Faculty and CU research staff
Dilatometry(controlled atmosphere)	per sample	\$99.75	Faculty and CU research staff
Optical Fiber Draws	Per day	\$2,733.53	Industrial companies
Optical Characterization	per sample	\$188.50	Industrial companies
New View (White Light interferometer)	per hour	\$61.25	Industrial companies
Microthermal analysis	per hour	\$183.25	Industrial companies
Viscosity Measurements	per sample	\$100.00	Industrial companies

ALL CHARGES EXCLUSIVE OF SUPPLIES