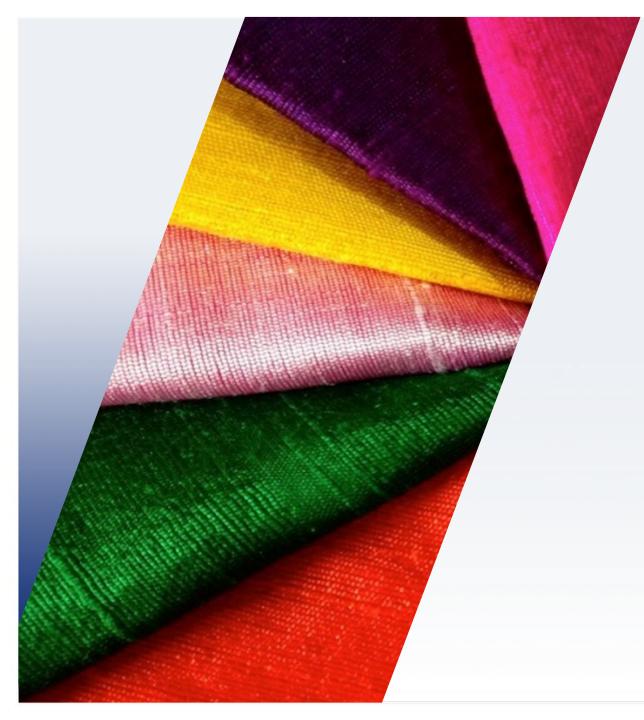


Laboratory Services for Textiles and Nonwovens





Textiles/Nonwovens Technical Services

- Fabric information and recommendations
- Product application
- Performance evaluation
- Formulation support
- Direct on-site customer support



Recommendations for Fabric Selection

- Supply background information on various textiles
- Communicate strengths and deficiencies
- Support customer fabric selection
- Provide application-based recommendations



Application Support Services

- Fabric preparation
- Treatment
- Drying
- Curing
- Ironing

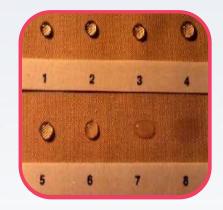


Performance Evaluation Services

- Water repellency
- Oil repellency
- Spray performance
- Stain release
- Wash durability
- Hydrostatic testing
- Static decay
- Surface resistivity



Static Water Repellency: Drop Kit Test Method



Water Drop Kit Test AATCC 193 (Teflon/CHT Standard)

- Three drops of the IPA and water solutions are placed on the fabric
- Fabric passes the test if no wetting is observed after ~15 seconds

Kit Comparison

3M Kit Test		
Grade	Isopropanol	Water
W	0%	100%
1	10%	90%
2	20%	80%
3	30%	70%
4	40%	60%
5	50%	50%
6	60%	40%
7	70%	30%
8	80%	20%
9	90%	10%
10	100%	0%

Teflon® Kit Test		
Grade	Isopropanol	Water
1	2%	98%
2	5%	95%
3	10%	90%
4	20%	80%
5	30%	70%
6	40%	60%
7	50%	50%
8	60%	40%



Oil Repellency: Drop Kit Test Method

- Three drops of the test grade are placed on the fabric
- Fabric passes the test if no wetting is observed after 15–30 seconds

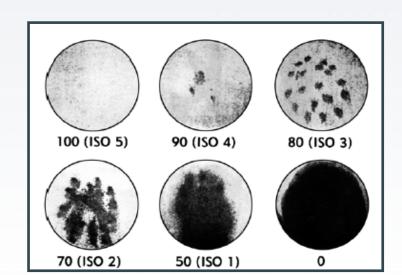
Oil Kit Test		
Grade	Description	
1	Kaydol Oil	
2	65:35 Kaydol: Hexadecane	
3	Hexadecane	
4	Tetradecane	
5	Dodecane	
6	Decane	
7	Octane	
8	Heptane	

Oil Drop Kit Test AATCC 118



Dynamic Water Repellency: Spray Test Method

- 250 ml of tap water is sprayed over fabric
- Spray height = 15 cm
- Knock off the specimen
- Ratings: 0–100

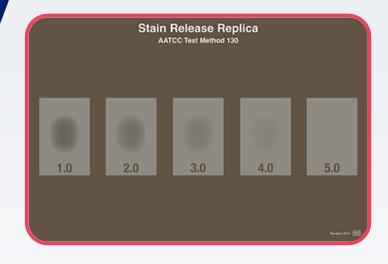


Spray Test AATCC 22

Your Dreams, Our Challenge



Stain Release Test Method



Stain Release Test AATCC 130 Measures ability of fabric to release oily stains during home laundering

- Corn oil and mineral oil are applied to fabric
- Glassine surface is placed on top followed by a 2.27 kg weight for 60 seconds
- Surface and weight are removed and the fabric is washed



Wash Durability

- Allows fabric to be washed and dried as much as required
- Sample evaluation is completed again after the wash and dry cycles are completed
- Provides a numerical value for performance longevity
- Used in stain release evaluations



Hydrostatic Pressure Testing

- Equipment measures the force (kPa) and time required to force a liquid, usually water, through a piece of fabric
- The greater the force and time required to penetrate the fabric, the more resistant the fabric is to that particular liquid
- This equipment provides a means of quantitatively differentiating treatments that perform similarly in the testing discussed earlier



Static Decay Testing

- Measures the time it takes for the charge applied to the fabric to dissipate
- Decay data is useful for medical garment and carpet customers



Surface Resistivity Testing

- Electrical resistance of the fabric surface is measured between two concentric rings
- Comparing the voltage gradient to the current density provides a numerical value of how much charge can build up on the surface of the fabric

AGC

Direct Customer Support

Customer

AGCCA
Technical Service
Customer Visit
(Technical)

AGC
Product Development
Technical Assistance
for AGCCA

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- USA
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- Canada
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