



AGS TESTING LABORATORIES



**FIBER | YARN | FABRIC
GARMENTS | WATER | ECO**

An ISO/IEC 17025 (NABL accredited)



INDIA



MAURITIUS



COMBODIA

www.agstextiletesting.com

ABOUT OUR COMPANY

AGS India LABORATORIES PRIVATE LIMITED Own textile laboratories, Which provide quality testing and inspection services in Tirupur. These laboratories are equipped with state of the art facilities and are amongst leading textile testing laboratories. It has followed ISO 17025.

It has followed ISO 17025. In 2010, The new lab of AGS INDIA to provide testing facilities and technical guidance to retailers and exporters of garments, manufacturers & Processors of textile and all others with related activities towards quality up gradation and mitigation of day to day problems. To cater for the enhanced requirements of its esteemed clientele, facilities for eco-friendly testing and eco-labelling results in a timely manner, So that clients can make right decisions for the success of their products. Request for urgent need of test reports are expedited with personal attention and test reports are e-mailed followed by mailing of hard copies of certified reports.

Present range of services include testing to evaluate fitness for purpose, Consultancy, Customer Return Analysis, Training and Education, Research and Development Projects along with inspection during product development, manufacture and final random post production etc.

Our years of experience, commitment to our customers and professionalism ensure courteous, prompt and accurate services. All of our Technicians have worked in the textile industry for most of their careers enabling AGS to provide expertise in yarn, fabric and garment evaluation and / or testing. We use the most up-to-date test methods and participate in their development through membership in American Association of Textile Chemists & Colorists (AATCC) and Bureau of Indian Standards (BIS).

We maintain consistent and accurate test results through established Quality Management System (QMS) conforming to ISO/IEC 17025 : 2005, Participation in national & International proficiency testing procedures of national and international institutions. Thus probable deficiency related to man, Material, methods, machines and environment gets eliminated.

Customer Care & Service : AGS INDIA Laboratories Private Limited aims at total customer satisfaction. Customer service is the side motto. We understand requirements of customers and accordingly guide them in selection of proper test(s) so that the purpose of testing becomes meaningful. Technical help and impartial and quick testing in an economical manner.

Technology Packages : AGS INDIA Laboratories Private Limited offers technology packages comprising any or all of the following services, customized to client's needs.



The Management is Committed to :

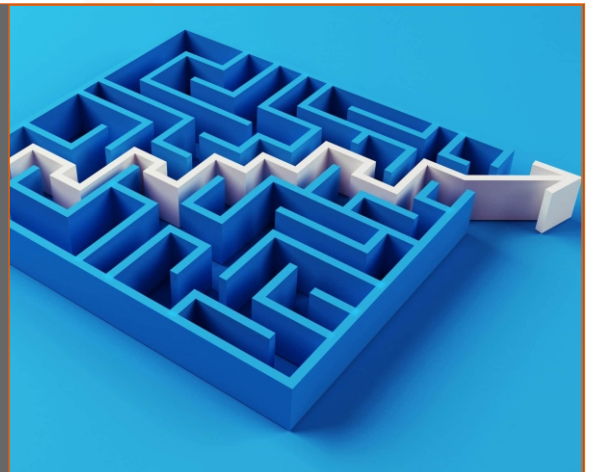
- * Maintain good professional practices and quality of services.
- * Continually improve the effectiveness of its service in a confidential, Complete, Competitive, Impartial and Reliable Manner.
- * Emphasize on the use of National and International test Procedures and calibrated test equipments. Utilize team effort of trained personnel.
- * Ensure maximum customer satisfaction.
- * Ensure that all staff familiarize themselves with the content of the Quality Manual and Comply with the Policies and Procedures laid down in the Manual & associated documentation, at all times.
- * Implement the laboratory Policies and Objectives.
- * Maintain quality system, which meets the requirements of ISO (IEC 17025 : 2005

QUALITY POLICY

OBJECTIVES

Continuous efforts to achieve the commitment given in Quality Policy by :

- * Participating in Inter laboratory proficiency testing at National and International levels to upgrade the competence level.
- * Need based training to technical and supporting staff.
- * Cross verification of pre - tested remnant samples as per schedule to ascertain the reproducibility and repeatability of reported test results.





COLOUR FASTNESS TESTING

Colour fastness tests establish the fitness for purpose of the fabric and help identify the appropriate care label instructions.

Colour fastness is a measure of two different properties of a textile, the degree to which it changes colour when subjected to a particular treatment or environment, and the tendency for the textile to cause staining of other fabrics with which it comes into contact.

The colour fastness properties of a textile will be related to the type of fibres present, the construction of the material, and especially to the type of dyestuff used and the method by which it has been applied. Fibre dyeing offers the best results, compared to yarn dyeing and the worst results are often found with piece dyeing (fabric dyeing). Similarly certain types of dyestuff offer better fastness, but at an increased cost to the customer.

Occasionally, the dyeing process can result in a reduction in other physical properties and it is up to the dyer to obtain a balance in all these respects

PHYSICAL TESTING

FABRIC CONSTRUCTION

This can include, weight, type of weave, number of threads or stitches per unit length and yarn properties is count and twist factor

The information gained from these can indicate potential problem or the performance

Of the fabric or garments

PHYSICAL PROPERTIES

The main tests in this category will include seam slippage and strength, tensile strength. The results will indicate potential problem in garments manufacture, invariably style and fit will pay on important part when analyzing these results.

WEAR PROPERTIES

These tests determine how the fabric or garments will perform during everyday use.

The main tests will include, abrasion resistance, snagging and crease recovery.

Dimensional stability

These tests will determine the extent to which a fabric or garments will shrink or extend during the nominated cleansing process. The test result are used to conform or determine correct care labelling.

FIBRE COMPOSITION

The fibre content of textiles material are tested according to statutory instrument 2006 No. 3298 the textile products (Determination of composition) Regulations 2006. This regulations refer to the test methods given in European directive 96/73/EC for binary textile fibre mixtures (amendment 2006/2EC) and European directive 73/44/EC for ternary fibre mixtures (amendment 2006/2EC) and European directive 73/44/EC for ternary fibre mixtures. Prior to adoption of the directives on 9th February 2007, BS 4407(1988), was the standard used, there is little or on difference between the methods outline in BS4407 and those in the directives 96/73/EC. The regulation cover all forms of textile and also includes some labelling requirements the tolerance allowed for garments and fabric composition is +/- 3% based on the total weight of fibres.

The directives identify the preferred sequence in which different components are removed by dissolving them in a variety of chemical and the residue after each component is dried and weight. After the final components has been removed, the composition is then determined based upon the percentage of each fibre (based upon it's dry mass) and may be adjusted for agreed moisture allowance (e.g. wool 18.25% Viscose 13.0% , polyester 1.5% etc.)

There are some fibre blends that can not be separated chemically, these are analyzed Microscopically and the individual fibres are counted to achieve the percentage blend. In the main these fibres such as wool or cashmere and certain cellulosic fibres such as cotton & linen





FLAMMABILITY TESTING

The legal requirements for flammability in the UK are mainly in the area of children's nightwear and furniture and furnishings.

AGS can perform all the tests required and offer advice and support on the interpretation of legislation, standards and test result . If you are supplying into the US market your products will need to meet current US legislation and satisfy the requirements of CFR 1610. AGS can perform this test and advice accordingly

Restricted substance can be present in many textiles and consumer products, they get into the product predominantly from the manufacturing process and are harmful of humans in many different ways. They may be carcinogenic, toxic, cause irritation or allergic reaction to those people sensitive to it.

In some cases the history of harm may not be to humans, it may be that it presents a danger to the environment that surrounds us.

Restricted substance can include

- | | |
|-----------------|-----------------------|
| * Nickel | * PCP's |
| * Formaldehyde | * APEO / NPEO |
| * pH | * Flame Retardants |
| * Azo Dyes | * Heavy Metals |
| * Disperse Dyes | * OrganoTin Compounds |
| * Phthalates | * Pesticides |

This list is by no means complete, the product will also determine which restricted substances may be present.

RESTRICTED SUBSTANCES



PROBLEM SOLVING

Our technical experts offer a comprehensive bespoke problem solving and investigation service, utilizing their specialist knowledge of All aspects of textiles and garment productions including fibre analysis, physical, chemical and analytical testing.

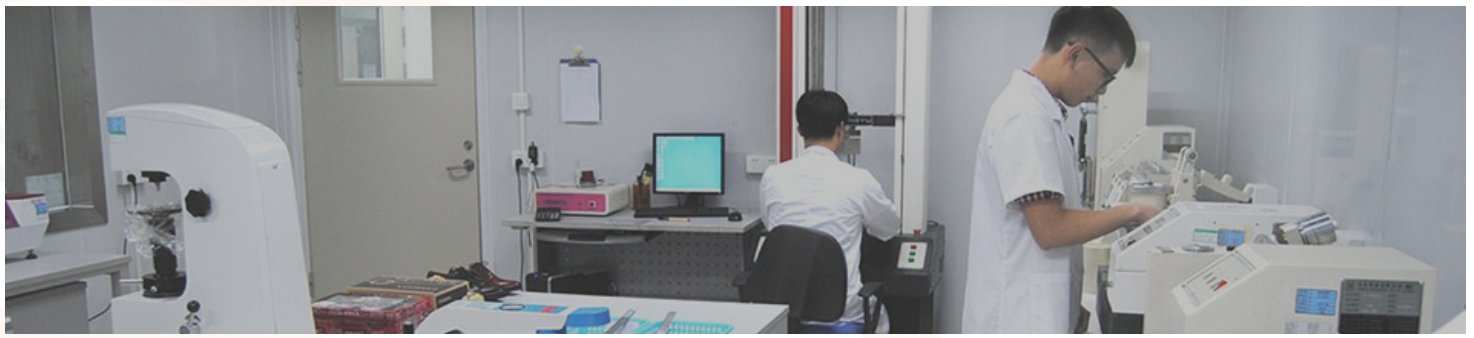
AGS can offer independent service in respect consumer complaint investigation and identification of faults in textile and related products, including :

- *light fastness issues with carpets*
- *garment shrinkage*
- *garment discoloration and yellowing*
- *corrosion of metal fittings*
- *skin irritation issues*
- *permanent staining from contact between textiles surfaces*
- *Early physical breakdown of corporatewear*
- *Bulk Vs sample difference*
- *colour variation between and within pieces or garments*
- *containment fibre analysis and identification*

AGS can also assist In providing a range information to assist clients with their textiles product testing in many areas including :

- *fitness for purpose testing*
- *durability and ageing studies to determine product life.*
- *due diligence programmers*
- *advice on legal compliance*
- *independent and objective testing protocols*





AGS also offer a consultancy and technical support service whereby advice is provided on all manner of textiles issues such as:

- *Advising on assessment and testing results*
- *technical advice for textiles and garment safety*
- *current legislation including the general product safety directive 2005.*
- *design and preparation of bespoke training courses for clients*
- *additional ongoing training courses for Clients*
- *design and preparation of quality manual, specifications and test*

SPECIAL CLAIMS TESTING

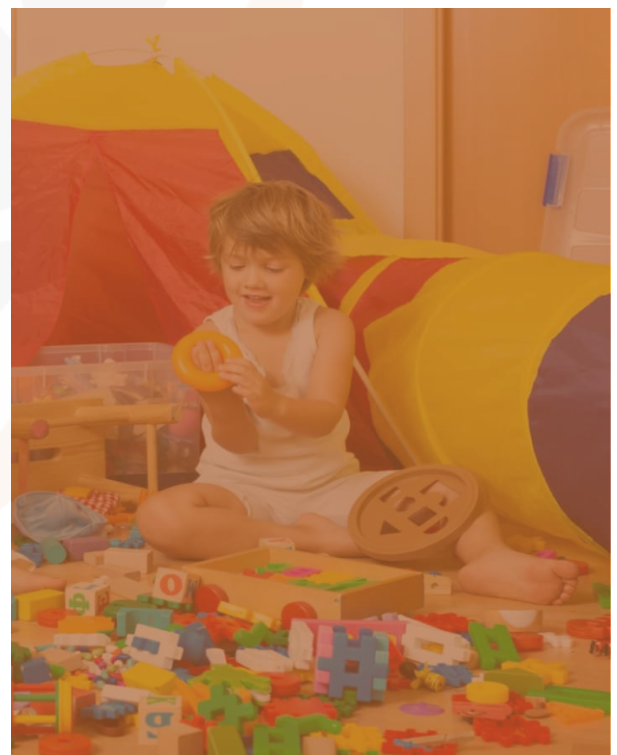
Special claims testing is carried out to ensure that any special performance claims are accurate and meet with customer expectation. Special Performance claims can include:

*Air permeability (winproofing) - Water Vapour permeability (Breathability) - Hydrostatic Head (waterproofing)
Spray rating (shower proofing) - Soil Release (Stain Resistance) - Wicking (Moisture Management)
Evaporation (Moisture Management)*

TOY & CHILDCARE PRODUCTS

There is probably no more worthwhile or necessary testing than that done on toys and childcare products. The UK toy safety regulations 2011 (SI 2011 No 1881) apply to manufacturers, importers, retailers/hirers, even toys distributed free of charge are covered by the Regulations. AGS can provide a total solution to toy and childcare products safety

- *Risk evaluation*
- *Testing to Internationally recognized Standards e.g. ASTM and En71*
- *Toy Life Cycle Assessment*
- *Age Grading Evaluation*
- *WEEE and RoHs Consultancy*
- *Training and seminars*



TRAINING

In a world where lead time are short, costs are high and time is a rare commodity, training often has to take a back seat, Similarly, in a market that has been losing experience and expertise for many years, it is rare for companies to process a full range of skills and knowledge that it needs to be technically self – sufficient.

AGS addresses both of these problems with our bespoke training course, we do not offer a standard 'chalk and talk' approach, all our courses are tailored to your company needs and are fully participative. We encourage you to bring along current problems and discuss these in the learning atmosphere, call it free consultancy and advice our course are geared for maximum of six people to allow the instructors time to devote to each person, most of the time is spend in the laboratory utilizing a hands on approach, the old saying of 'tell me and I will listen – show me and Ill understand' is very true

By applying the knowledge gained on the courses, the benefits to your business are immediate and measurable, participants Will be more aware and able to ask more searching and relevant questions.

Each course participant receives a course manual and certificate of attendance , more importantly will leave with a contact list of experience and knowledgeable people at AGS that they can call for advice at any time .



PRODUCT INSPECTIONS

Through their global partners AGS can offer the following inspection services

Initial Product Inspection (IPI)

A product inspection carried out when less than 20% of order is processed. Production sample are compared to buyers agreed standard (Sealing Sample).

Any deviation from standard is compiled in your report along with any necessary corrective actions.

During Production Inspection(DPI)

A product inspection carried out when between 40% and 60% of the product is manufactured. We verify that any corrective actions have been carried out and check on the average quality of the production run.

Final Random Inspection (FRI)

Inspection of the product during the final stages or when the product is to be loaded. In addition to product quality, packing and labelling is also checked against requirements.



FACTORY AUDITS

Factory Audit

To ensure that the factory you select has the capability in terms of systems and procedure, space, manpower and equipment to produce the required level of product quality and volume with in agreed lead times.

Factory audit service

We help our clients to select suitable manufacturers and help in monitoring their manufacturer through our factory audit service. We evaluate the effectiveness of the manufacturer internal capability and quality systems from receipt of raw material through to packing. We will make recommendations for improvement in systems and processes. Other concern such as social compliance, security and product safety practices can also be included in the audit scope or individually audited.



SOCIAL ETHICAL AUDITS

Today consumer is increasingly aware of social of social and environmental issues and is accordingly more demanding of those who have influence over the products and services they buy.

Of primary concern for UK Retailers and consumers alike are the conditions under which consumer products are produced are elements include in our social and ethical audit process.

AGS and their global partners work with retailers and manufacturers to ensure that factories comply with a recognised standard, SA8000 or the ETI Base Code. Where there are areas for improvement we will always facilitate the best solution for both buyers and manufacturer.

ALWAYS QUALITY



AGS TESTING LABORATORIES

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