

SGS

Setting the standards for a better world

SAFETY, QUALITY AND SUSTAINABILITY SOLUTIONS FOR THE HARDGOODS INDUSTRY



ABOUT SGS

SGS is the world's leading testing, inspection, and certification (TIC) company. We are active in virtually all sectors of the economy. We provide a wide range of inspection, verification, testing and certification services across all stages of the value chain. Our services add value to society by reducing risk, improving efficiency, safety, quality, productivity and sustainability, as well as advancing speed to market and creating trust. We help to create a competitive advantage for businesses while simultaneously having a positive impact on society.

Founded in 1950, SGS India draws on its strength of an extensive global network and a vast network within in India as well as its rich experience and sound understanding of market and regulatory requirements gained from our 70 years of operations in India. The core services offered by SGS can be divided into three categories -



TESTING SERVICES

SGS tests product quality and performance against various health, safety and regulatory standards. SGS operates state of the art laboratories on or close to customers' premises.



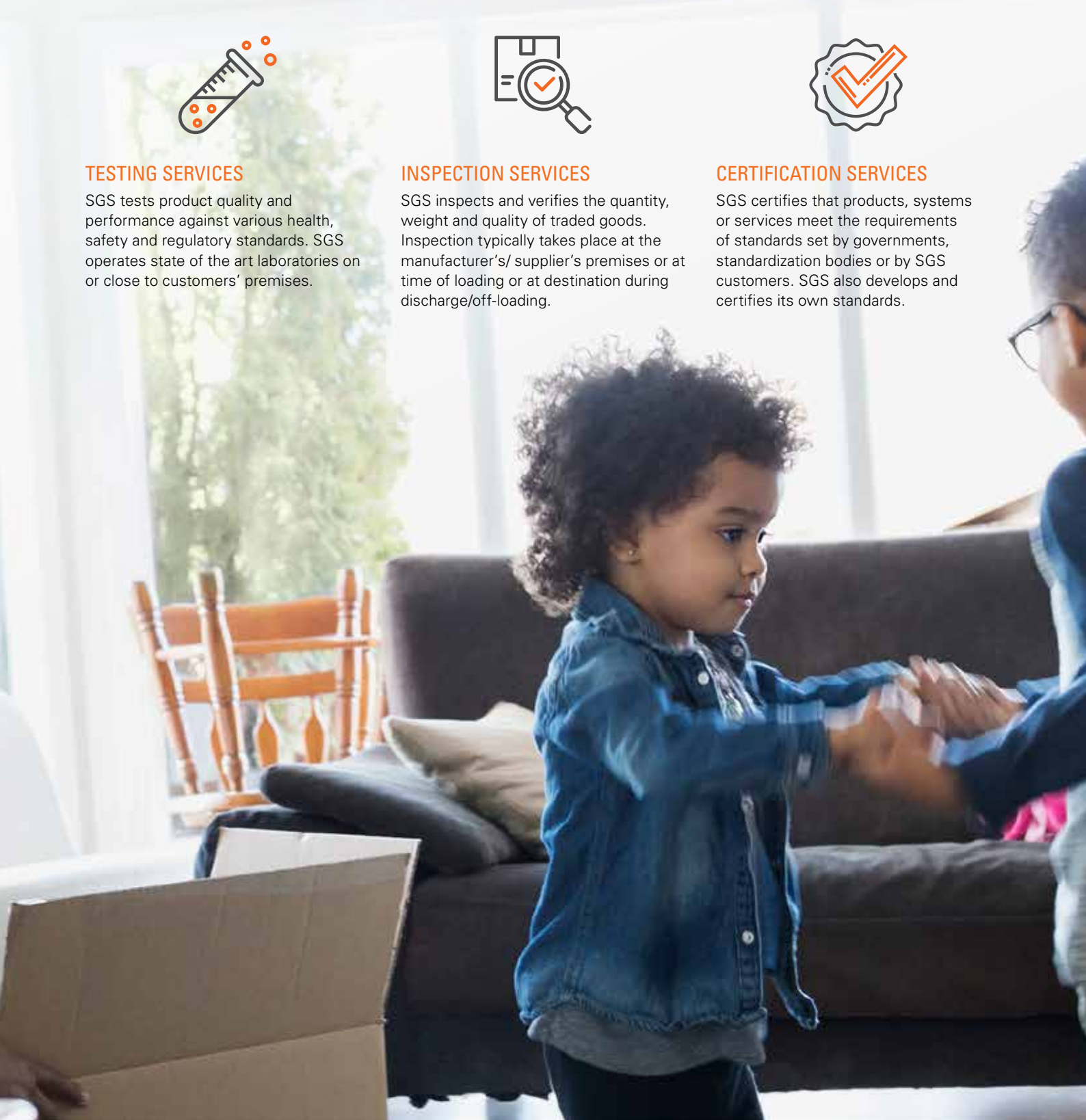
INSPECTION SERVICES

SGS inspects and verifies the quantity, weight and quality of traded goods. Inspection typically takes place at the manufacturer's/ supplier's premises or at time of loading or at destination during discharge/off-loading.



CERTIFICATION SERVICES

SGS certifies that products, systems or services meet the requirements of standards set by governments, standardization bodies or by SGS customers. SGS also develops and certifies its own standards.





CONSUMER GOODS AND RETAIL

SGS offers customized solutions that help manufactures, importers and retailers to develop and market safe to consumers products worldwide.

Our services under Consumer and Retail cover a wide range of products in the consumer goods industry including textiles, apparels, footwear, electrical and electronics, hardgoods and cosmetics, personal and household care products.

Generating trust throughout the supply chain. Our services enable manufacturers, exporters, importers and retailers to gain a competitive edge.

SERVICES

- Testing
- Verification
- Product Certification
- Technical Assistance
- Product Inspection
- Process Assessment



HARDLINE TESTING

Safety, product quality and performance are prerequisites for all hardline products such as toys, sports goods, jewellery, decorative etc. Early detection of poor product design, substandard material supply and flaws in production avoids unexpected costs and protects brand image. Our specialists understand your expectations, assist you for legal compliance and help you ensure quality all along the value chain.

SGS comprehensive services help products comply with regulations, standards and contractual specifications that allow you to demonstrate due diligence and bring your products faster to the market.

PRODUCT CATEGORY

- Toys & juvenile products
- Fashion jewellery
- Handicrafts
- Foodware & houseware products
- Table top products
- Candles and candle accessories
- Decorative products
- DIY: Garden/hand tools
- Outdoor products
- Furniture
- Sports goods
- Stationary products
- Packaging materials
- Transit testing – ISTA, ASTM, ISO
- Food contact material and food packaging

ACCREDITATIONS

- NABL (ISO 17025)
- ISTA
- CPSC
- BIFMA



TOYS AND SPORTS GOODS

To support local manufacturers as well as international buyers and retailers, SGS offers a comprehensive portfolio of safety and quality services to minimize risks for end consumers by improving the safety of toys.

Choosing SGS as a key partner throughout the supply chain brings value to clients and business by:

- Ensuring compliance with worldwide toy regulations and industry standards.
- Minimizing the risk of costly toy recalls, returns and complaints.
- Enhancing risk management and brand protection.

TYPES OF TOYS & SPORTS GOODS

- Plastic, stuffed & wooden toys
- Dolls
- Ride on toy
- Board games & puzzles
- Magic games
- Novelty products
- Boxing gloves, shin guard
- Cricket bat & kit
- Sports water bottle, bags & luggage
- Toy sound testing
- Footballs, soccer balls etc.
- Battery operated toys
- Finger paints
- Tricycles
- Kids bicycle/ Scooter
- Play gyms
- Fidget spinners
- Outdoor activity toys like swings/slides
- Inflatable toys

CHEMICAL TESTING

Tests to ensure that banned or restricted chemicals and dangerous materials are not present in the product

- Heavy metals (lead content, cadmium)
- Phthalates on plastic toys (softeners)
- Azo dyes on textiles
- Formaldehyde emission from wooden toys
- Nickel release when prolonged contact with skin
- Organic chemical compounds
- LHAMA certification
- Halogens test
- PCP
- PAH

MECHANICAL/ PHYSICAL TESTING

Tests to ensure that there are no hazardous sharp edges, sharp points and small parts, or other potential hazards:

Strength, fatigue, durability, tensile, torque, static, impact, noise tests, etc.

ELECTRICAL SAFETY TESTING

- Electric toys
- Radio-controlled toys
- Battery-powered devices
- Battery-powered ride-on toy

FLAMMABILITY TESTING

- All toys made from textile fabric, soft toys, plush toys
- Ensure that if a toy does catch fire you can drop it or climb out of it before serious injury occurs. Certain flammable materials, that pose the greatest risk, are prohibited from all toys.

LABELLING REQUIREMENTS

- Warning labels
- Product labels
- Cautionary labels
- Age grading

COLORFASTNESS TEST

- Dry / wet rubbing
- Perspiration
- Static wetting
- C/F to washing

STANDARDS APPLIED

EN 71 Part -1,2,3, 8 & 9
ASTM F 963 / CPSIA
AS NZS ISO 8124
IS 9873 Part 1,2,3,4,5,6,7 & 9
ISO 8124 Part 1,2,3,4,5,6 & 9
IS 15644:2006 R.a. 2016
EN 62115, IEC 62115
AS/NZS 62115
SOR-2011-17
CFR STANDARDS
AND MORE



FASHION JEWELLERY

Fashion jewellery is an important part of modern lifestyle. Used as an accessory, it comes in direct contact with our body and skin. Hence its is necessary to check the quality of the product, safety for design, skin allergies and various health hazards.

SGS helps ensure health and safety standards according to American, European and other international markets for exporters, retailers and manufacturers.

TYPES OF JEWELLERY

- Necklace
- Bracelet
- Bangles
- Earrings
- Ring/ toe ring
- Anklets
- Hair accessory

CHEMICAL TEST / RESTRICTED SUBSTANCES

- Nickel release
- Nickel spot
- Total lead content
- Soluble lead content
- Lead in surface coating
- Heavy metals
- Azo test
- PCP content
- Formaldehyde content
- Total cadmium content in plastics
- SVHC analysis REACH compliance

COLORFASTNESS TEST

- Dry rub\ wet rub
- Perspiration test
- Static wetting

PHYSICAL TESTS

- Workmanship
- Sharp point
- Sharp edges
- Attachment strength
- Construction qualities
- Flammability of solids

STANDARD APPLIED

EPA 3050B/3051
EN 14362-1 / EN 14362-3 (textile)
EN ISO 17234 - 1/2 (leather)
EN 1122
EN1811 / EN 12472
Metal: CPSC-CH-E1001-08.3
Non-metal: CPSC-CH-E1002-08.3
Surface coating: CPSC-CH-E1003-09.1
CPSC-CH-C1001-09.3
DIN 54231
SGS In-house Test Method
AOAC 974.02
LFGB 64 BVL B 82.02.08
ISO 17075



FOOD CONTACT MATERIAL TESTING

Food Contact Material and Food Packaging Material play a vital role in ensuring food safety and its fitness for consumption. Food packaging, cutlery, feeding utensils, cookware are items which come in direct contact with food and these must comply with quality regulations to avoid hazardous health impacts. A conscious retailer/manufacturer must take ample care of the safety and durability aspects of the food contact materials used to ensure a healthy product for the consumer.

SGS testing services enables to demonstrate due diligence and bring the necessary efficiency to speed up the go to market. The flexible quality assurance packages offered by SGS laboratory reduce the risks, improve efficiency & provide your business a competitive edge. We offer a wide range of testing solutions to leading global retailers in America, Europe and other international markets for wide range of food contact and packaging materials.

TYPES OF FOODWARE

- Steel ware
- Glass ware
- Ceramic ware
- Non-stick ware
- Plastic ware
- Cutlery

TYPES OF FOODPACKAGING

- Laminates and packaging film
- Paper and paper boards
- Plastic bottles containers
- Tin cans
- Crown and closure, lug caps
- PET preforms
- Tetra pack

FOOD SAFE TEST

- Lead content, NIOSH test
- Heavy metals & toxicity
- Food safe testing
- Metal composition
- Leachable lead & cadmium
- Specific migration
- Color migration
- Global migration
- FDA compliance
- GRASS regulation
- Sensory (taste and odor)
- SVHC analysis REACH compliance
- Extractable heavy metals (Lead, cadmium, chromium VI, mercury)
- Pentachlorophenol (PCP) Content
- Polychlorinated biphenyls (PCB)
- Formaldehyde content / release
- Organoleptic odor
- BHT free in polybags
- Heavy metals in packaging materials
- Phthalates
- Lead & cadmium content
- Organotin compounds (TBT, DBT, MBT)
- Specific migration tests for heavy metals, Bisphenol A (BPA)
- Primary aromatic amines
- Melamine, BADGE NOGE BFDGE derivatives
- PFOS, Monoethylene glycol & dethylene glycol isophthalic acid
- Terephthalic acid, acetaldehyde
- Acrylonitrile, Methacrylic Acid, Nitrosamine/ Nitrosatable
- Bisphenol A (BPA), vinyl chloride monomers (VCM)
- Volatile organic compounds (VOCs) or residual solvents



PERFORMANCE TEST

- Cross cut adhesion
- Dishwasher safe
- Plating thickness
- Stain resistance
- Handle strength
- Resistance to scratching other surfaces
- Thermal shock endurance
- Microwave safe

TESTS COMMON TO ALL KINDS OF FOODWARE

- Resistance to corrosion
- Resistance to humidity
- Effects of heat and cold
- Effects of extreme
- Temperature
- Moisture content
- Tilt/stability test
- Stain resistance

- Plating thickness
- Metal hardness
- Coating adhesion
- Drop test
- Attachment strength
- Loading capacity
- Thermal shock
- Flammability
- Leakage resistance
- Workmanship
- Weathering studies
- UV resistance

TESTS SPECIFIC TO CERAMIC & GLASS WARE

- Thermal shock endurance
- Microwave safe
- Dishwasher safe
- Handle strength

TESTS SPECIFIC TO CUTLERY

- Cross cut adhesion
- Dishwasher safe
- Plating thickness
- Stain resistance
- Knife hardness
- Annealing

TESTS SPECIFIC TO NON-STICK WARE

- Cross cut adhesion
- Dishwasher & hand wash safe
- Stability
- Handle strength
- Stainless steel grade
- Resistance to scratching other surfaces



CANDLES AND CANDLE HOLDERS

Decorative candles, fragranced candles, incense sticks, candleholders, are items for indoor use and are considered to be risky products. These factors make it critical to have these products comply to various quality, safety and environment regulations. Adherence to these regulations is a significant criteria considered by consumers prior to purchase. SGS provides a wide range of tests on candles and candle accessories according to European, American and other international standards.

DIFFERENT TYPES OF CANDLES

- T-Light candles
- Votive candles
- Sphere candles
- Pillar candles
- Ball candles
- Gel candles

TESTS FOR CANDLES

- Verification of cautionary labeling
- Burning characteristics
- Workmanship-sharp point /edge
- Overflow
- Afterglow
- Flame height
- Dripping of wax
- Excessive smoke
- Soot index
- Stability
- End of useful life\burn time
- Lead in surface coating
- Lead in wick
- Flammability of solids
- SVHC analysis (REACH compliance)

TESTS FOR CANDLE HOLDERS

- Resistance to corrosion
- Resistance to humidity
- Effect of heat & cold
- Effect of extreme temperatures
- External temperature measurement of candle holder
- Drop test (Non-fragile products)
- Thermal shock (for glass containers)
- Annealing (for glass containers)
- Moisture content (for wooden holders)

STANDARDS APPLIED

ASTM F 2058, 16 CFR1303,
ASTM F 2417-04,
16 CFR 1500.44
16 CFR 1500.48/49,
BS 7479 / ISO 9227 / ASTM B 117
(mod.)

ASTM C148 – 17, EN
15426, ASTM F
2601:2016



PACKAGING SOLUTIONS

Packaging plays an essential role in promoting, protecting and transporting your products. Inadequate testing of design or materials can result in costly damage and tarnish your brand's reputation.

SGS performs testing on material and physical performance of packing products to assist clients in the design review and development of primary, secondary and transit packaging. Our services cover wide range of paper, paperboard, corrugated, rigid plastics, plastics sheeting, textiles, glass, ceramic, silicone and allied packaging products.

SGS offers solutions to industries such as textiles, toys, electronics, medical / pharmaceutical, food contact, cosmetics, furniture and home improvement.

ENVIRONMENT TESTS

- Environmental cycling
- Humidity aging
- Thermal aging
- Resistance to weathering
- UV aging
- Color difference, gloss, etc.
- Corrosion resistance testing
- CASS testing

TRANSIT TESTING

- Atmospheric conditioning
- Compression test
- Fixed vibration test
- Random vibration test
- Drop test clamp test
- Incline impact test

TESTS ON CORRUGATED BOXES/SHEETS

- Bursting strength
- Edge crush test
- Flat crush test
- Compression test on empty cartons
- Puncture resistance
- Moisture content
- Cobb or water absorption
- Thickness
- GSM
- Ply separation
- Drop test
- Vibration test by rotary motion
- Random vibration test
- Compression test on carton
- Clamp test
- Incline Impact Test

STANDARDS APPLIED

CHEMICAL TEST :

- 21 CFR guidelines,
- IS Std / EU Directives, ISO, USP, FTIR, EN Std's , DIN, ASTM, LFGB Sec 30 & 31, TAPPI,
- AP 81 Resolution,
- TPCH: Toxics in Packaging Clearing House

PHYSICAL & TRANSIT TEST :

- ISTA 1 Series .
- ISTA 2 Series,
- ISTA 3 Series,
- ISTA 4 AB Series,
- ISTA 6 SAMSClub Series,
- FedEx Series
- ASTM D4169,
- TAPPI ,ISO,IS
- ASTM D 5276,
- ASTM D 999,
- ISO 2247

A SECURE SOLUTION

GET IN TOUCH WITH US FOR FURTHER DETAILS

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WHEN YOU NEED TO BE SURE

