



الجمعيّة العلميّة المملكيّة  
Royal Scientific Society

في خدمة الوطن منذ ١٩٧٠ • For Jordan, since 1970

# Testing Services Catalogue





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# Testing Services

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# Main Testing for Laboratories at RSS

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## Chemical Laboratories

The chemical laboratories have highly trained and qualified staff that provide chemical and physical analyses for testing a wide range of raw and finished products, including food, feedstuffs, medical and industrial gases, paint, fuel, mineral oils, textile, tobacco products, detergents, in addition to industrial minerals and products. The testing analyses are conducted in accordance with national and/ or international standards.

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## Environmental Laboratories

Bio-safety and environmental chemical analysis are the main functions of this laboratory providing environmental testing services in the fields of water, wastewater, and soil. The environmental analysis provides scientific data to environmental engineers and decision makers in areas of risk assessment, environmental impact, and management of hazardous waste in order to reduce environmental pollution and protect the environment.

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## Mechanical Laboratories

The Metallography laboratory conducts mechanical and physical testing on imported and locally produced metallic products such as steel and alloys. The plastics and rubber laboratory conducts routine testing of physical and thermal properties of polymeric materials and products in accordance with national and international specifications.

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### **Non Destructive Testing Laboratories (NDTL)**

Specialised since 1975, the NDTL is one of the most dynamic laboratories at the RSS. These laboratories provide technical expertise and training in the field of NDT and welding.

Field and laboratory tests are conducted by NDTL to measure radioactive levels in food and environmental samples as well as provide technical consultation services and certification of NDT personnel for the industry in Jordan and the region.

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### **Construction and Material Laboratories**

The construction and material laboratories conduct numerous physical and chemical analyses on construction materials such as cement, concrete, building components, insulation materials, ceramics, raw materials, soil, asphalt, rocks and construction chemicals.

The laboratories operate under ISO 9000 certification and are accredited by national and international accreditation agencies.

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### **Water Efficiency Laboratories**

The latest addition to the RSS laboratories provides water efficiency testing services for a variety of plumbing and household kitchen and bathroom appliances.

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# Food Testing Services

## What we do

- Testing according to national and international standards food products
- Testing of radiation pollution
- Testing of microbial contaminations
- Microbiology food testing

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## Food Testing Services includes the following items:

- Dairy products
- Oil products
- Meat products
- Sugar based products
- Canned products
- Beverages and drinks
- Salts
- Corn flakes and potato chips
- Olives and pickles
- Industrial vinegar
- Crude oil
- Feed
- Pasta and instant noodles
- Egg powder
- Aluminium phosphate

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# Tobacco Testing Services

## What we do

- Testing most of pesticides formulation
- Testing of fruits and vegetables for pesticide residues according to international requirement

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## Tobacco Testing Services includes the following items:

- Carbon monoxide
- Nicotine
- Moisture in tobacco
- Draw resistance of cigarettes
- Mesh size
- Ash content
- Nitrogen
- Undissolved ash in acid for tobacco
- Ratio of cigarette paper to the total weight of cigarette, excluding attached filter and filter paper
- Apparent density of tobacco
- The length of tobacco column
- The circumference of the cigarettes
- Loose tobacco
- Detection of invert sugar
- Moisture content
- Silica content
- Tobacco/ carbohydrates

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# Paints, Lacquers and Petroleum Derivatives Testing Services

## What we do

Testing according to national and international standards of paints, emulsions, varnishes, undercoats, primers for houses, roads and cars. Testing of petroleum according to ASTM quality control agreements.

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## Paints, Lacquers and Petroleum Derivatives Testing Services includes the following items:

- Antifreeze
- Solvents
- Brake Fluid
- Hydraulic oils
- Gear oils
- Automatic transmission fluid, mono or multi grade lubricating oils
- Mineral oils
- Turbine oils
- Craft oils
- Compressors
- Lubricating oils
- Used oils
- Grease
- Petroleum products
- Emulsion paints
- Texture paint
- Gloss paint
- Flat alkyd based paints
- Titanium dioxide
- Titan painting
- Putty for interior use
- Undercoat paint
- Priming oil paints
- Cellulose glossy lacquer for vehicles
- Spraying-lacquer general use
- Nitrocellulose primer surface
- Road marking paint
- Hot applied thermo plastic road marking material
- Glass beads
- Paint thinner

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# Paper, Leather, Textile and Fabrics Testing Services

## What we do

Testing according to national and international standards of threads, fabrics, carpets, rugs, leather sanitary paper, towels, cartons and cardboard.

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**Paper, Leather, Textile and Fabrics Testing Services includes the following items:**

- Yarn, fabric, carpets
- Paper, tissue paper, carbon paper, board
- Leather and matches



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# Pesticides and Pesticides Residues Testing services

## What we do

- Testing most of pesticides formulation
- Testing of fruits and vegetables for pesticides residues according to international requirement

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## Pesticides and Pesticides Residues Testing services includes the following items:

- Pesticides: winter and summer agricultural spraying oils
- Pesticides: residues in fruits and vegetables.
- Active ingredients without specific insecticide storage life
- Active ingredients (more than one active ingredient) without specific insecticide storage life
- Physical properties of pesticide
- Active ingredients with 14 days insecticide storage life
- Active ingredients (more than 1 active ingredient) with 14 days insecticide storage life
- Solvents
- Vitamins
- Active ingredients without specific fungicides storage life
- Active ingredients with 14 days fungicides storage life
- Polymers
- Container capacity for aerosol products
- Active ingredient in matt products
- Active ingredient in aerosol products
- Determination of aflatoxins in feeds

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# Gases Testing Services

## What we do

Testing of medical gases (oxygen, nitrous oxide), for purity and impurities.

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## Gases Testing Services includes the following items:

- Medical oxygen gas
- Medical nitrous oxide gas
- Medical air gas
- Medical nitrogen gas
- Medical carbon dioxide gas
- Industrial oxygen gas
- Industrial carbon dioxide gas
- Industrial nitrogen gas
- Halon
- Freon
- Acetylene

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# Detergents and Cosmetics Testing Services

## What we do

Testing of chemical properties in addition to microbial contamination.

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## Detergents Testing Services includes the following items:

- Soap
- Shampoo
- Carpet shampoo
- Car shampoo
- Detergent powder
- Bleach powder
- Glass cleaner
- Dishwashing liquid
- Fabric softener
- Liquid soap
- All purpose synthetic detergent
- Drain cleaner
- Sodium hypochlorite
- Coconut mono diethanolamide
- Texapon
- Alkyl benzene sulphonic acid

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## Cosmetics Testing Services includes the following items:

- Petroleum jelly (Vaseline)
- Creams
- Hair shampoo
- Hair dye
- Toothpaste perfumes
- Hair
- Conditioner disinfectants
- Shaving foam
- Shower gel
- Shaving cream
- Dead sea salts
- Hair oil
- Talcum powder
- Lipstick
- Deodorant
- Nail polish
- Styling gel

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# Fertilizers and Animal Feeds Testing Services

## What we do

Testing of chemical properties in addition to microbial contamination.

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**Fertilizers & Animal Feeds Testing Services**  
includes the following items:

- Fertilizers
- Feed (MCP and DCP)
- Phosphate rock

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# Metal Testing – Destructive Testing Services

## What we do

- Dimensional, physical, mechanical, chemical tests and microscopic examination
- Quality control of manufacturing process

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## Metal Testing – Destructive Testing Services includes the following items:

- Rebar
- Screws
- Ductile pipes
- Welded and non welded pipes
- Valves
- Sheet metal
- Household gas cylinders
- Fire extinguishers
- Metal wires
- Twisted wires
- Cables
- Aluminium profiles
- Windows and doors
- Metal cans
- Roadblocks and bridge sections
- Mixers of drinking water
- Faucets
- Radiator heaters
- Water heaters
- Cooking pots
- Razor blades
- Metal containers
- Copper plates

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# Metal Testing – Non-Destructive Testing Services

## What we do

- Testing and inspection of welding lines in steel structures, pipelines and vessels
- Testing of manufacturing defects in cast products
- Supervising welding operations in major projects
- Qualification of welding procedures
- Training of welding personnel

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## Metal Testing – Non-Destructive Testing Services includes the following items:

- Forged material
- Weldments
- Cast materials
- Thermography testing

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## Thermal Testing – Destructive Testing Services

### What we do

Testing of thermal efficiency of boilers, radiators, solar heaters and domestic gas appliances.

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### Thermal Testing Services includes the following items:

- Domestic cookers
- Boilers
- Radiators
- Solar collectors
- Kerosene heaters
- Gas heaters
- Gas regulators
- Instant gas water heaters

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# Plastic and Rubber Testing Services

## What we do

- Physical, mechanical and thermal testing of polymeric products
- Quality control of manufacturing process

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## Plastic and Rubber Testing Services includes the following items:

- Water polyethylene pipes
- Polyvinyl chloride pipes – 110mm
- Polyethylene pipes
- PPC pipes
- PVC water pipes
- CPVC pipes
- PVC electrical pipes
- Gloves
- Plastic joints
- Sponge
- Plastic disposables
- Nylon bags
- Garbage bags
- Rubber rings for cement pipes
- Foam numbers
- Car plates holders
- Baby bottles
- ID cards
- Air pipes
- Water plastic pipes
- Water rubber pipes
- Gas pipes
- Plastic containers
- Multi-layer polyethylene pipes
- Filters
- Electrical cables
- Tyres
- Jerrycans



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# Radiation Protection Testing Services

## What we do

- Physical, mechanical and thermal testing of polymeric products
- Quality control of manufacturing process

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## Radiation Protection Testing Services includes the following items:

- Domestic cookers
- Boilers
- Radiators
- Solar panels
- Kerosene heater
- Gas heater
- Gas regulators
- Instant gas water heaters

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# Design and Manufacturing Services

## What we do

- Reverse engineering
- Design of moulds for the plastic manufacturers and foundries
- Testing of sand for foundry applications
- Quality control agreements with foundries

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# Water Quality Testing Services

## What we do

- Reverse engineering
- Design of moulds for the plastic manufacturers and foundries
- Testing of sand for foundry applications
- Quality control agreements with foundries

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## Water Quality Testing Services includes the following items:

- Water density
- Water salinity
- Water soluble solids
- Drinking water
- Instrumental lab testing services
- Microbiology testing services

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# Air Quality Testing Services

## What we do

Testing of pollutants in air in field.

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## Air Quality Testing Services includes:

Identifying the levels of specific air pollutants (such as SO<sub>2</sub>, NO<sub>x</sub>, H<sub>2</sub>S, CO, dust emission, alkaline and acids) emitted from stationary sources (such as stacks and vents) via spot measurements, and assess their levels according to national and international standards.

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# Construction Products Testing Services

## What we do

Conducting physical analysis on different construction materials such as cement, concrete, building components, insulation materials, ceramics, aggregate, marble, granite, soil, asphalt, rocks and construction chemicals.

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## Construction Products Testing Services includes the following items:

### Cement and Gypsum

- Gypsum
- Fresh concrete
- Hardened concrete
- Terrazzo tile
- Interlocks
- Concrete pipes
- Kerb–stone
- Bricks
- Gypsum board
- Thermal insulation materials

### Construction Chemicals

- Tile grout
- Ceramic tile adhesive
- Chemical admixtures for concrete
- Air-entraining admixtures for concrete
- Chemical admixtures for use in producing flowing concrete
- Concrete repair materials
- Screed

### Soil

- Soil
- Aggregate
- Dimension stone
- Asphalt mixtures and asphalt tiles
- Waterproofing membrane

### Ceramics and Glass Tile Grout

- Ceramic tiles
- Sanitary fixtures
- Glass
- Roof tiles
- Road markers
- Wood

### Cement

- Cement
- Portland cement
- White cement

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# Water Efficiency Measurements Testing Services

## What we do

- Conduct tests on all imported and local manufactured sanitary fixtures, fittings and appliances and check their compliance with the technical requirements of the Jordanian standards and building codes
- Help in regulating and standardising the sanitary products trade in Jordan
- Provide the necessary technical support for the local importers and manufacturers

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## Water Efficiency Measurements Testing Services includes the following items:

- Regulators for sanitary taps
- WC pans and suites
- Filling and flushing valves

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## Water Efficiency Measurements Testing Services

### What we do

Provide testing services for household and similar electrical appliances for general use which can be divided into:

- Portable household appliances such as vacuum cleaners, electrical irons and kitchen appliances etc.
- Stationary household appliances – this group covers appliances that are either fixed to a support or weigh more than 18kg, for example, washing machines, microwave ovens etc.
- Cooling appliances – including all appliances incorporating a compressor and cooling fluid, such as refrigerators and air-conditioners etc.

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### Electrical Consumer Products Testing Services includes the following items:

- Household electrical appliances
- Audio, video and similar electronic apparatus
- Information technology equipment
- Batteries
- PVC insulated cables – low voltage
- Enclosures: degrees of protection provided by enclosures against ingress of dirt or against the ingress of water
- Lighting, lamps, lamp-holders and lighting chains
- Ballasts and transformers
- Plugs, socket-outlets and switches
- Circuit breakers
- Electric toys
- Personal protective equipment



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Royal Scientific Society

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