

Kulkarni Laboratory & Quality Management Services

E1, Omega Heritage, Chavan Baug, DSK Vishwa Road, Dhayari, Pune - 411041.

Email : klqmslab.tech@gmail.com, klqmslab@gmail.com

Contact : 9850982510 / 9850469685 / 9405746426 / 7620996654 / 9657057028

LABORATORY PROFILE

A pioneer laboratory in quality control of industrial Products / materials.

NABL accredited laboratory for

- Rubbers,
- Plastics,
- Paints,
- Adhesives,
- Textile materials
- Building materials
- Petroleum Products

Testing of materials is carried out to INDIAN standard i.e. BIS and FOREIGN Specifications like BS, CS, ISO and ASTM etc.

We offer experts' advice to the clients on their test reports.

Our laboratory offers following services also.

1. Undertakes various trials as per industry's requirements for process improvement / product development. These activities are carried out by skilled personnel.
2. We are pioneer in setting up of laboratory at firm's premises as per customer requirement. We organize test methods to suit testing of input, intermediate & final product.
3. We run High tech training courses on industrial subjects like quality assurance of Rubbers, Plastics, Adhesives, Paints, and Textiles.
4. We organize small laboratory practical training to industrial personnel on specific subjects
5. Our laboratory has highly educated & technical heads.

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The Director of the Laboratory has more than **53** years of wide spread experience in the field of quality assurance of chemicals, rubbers, plastics, paints, adhesives, textiles, explosives etc. from CQA (ME) kirkee which is a quality assurance department under Director General of Quality Assurance.

We have long list of satisfied customers which includes -

- | | |
|-------------------------------------|---|
| 1. Defence ordnance factories - | Ammunition Factory Kirkee
High explosive factory Khadki
Ordnance factory Varangaon
Ordnance factory Bhandara
Economic explosives Nagpur |
| 2. Defence quality assurance - | Controllerate of Naval Armament
Pune
Organizations SQA EA Aundh pune |
| 3. Defence R& D organizations' - | Armament Research & Development
Organization Pune
High Energy Materials Research
Laboratory Sutarwadi Pune |
| 4. Railway Ministry - | RDSO Mumbai |
| 5. Heavy industrial organizations - | Hindustan Petroleum
Larsen & Toubro Limited
Bajaj, Henkel, Asian Paints.etc |

More details on the facilities available in laboratory can be available on our website www.kulkarnilaboratory.in. Laboratory brochure is enclosed for your information please.

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Test Facilities - Paints

- Consistency in seconds B 4 FORD CUP
- Flash point °C
- Mass per 10 Lit.
- Water content by Dean & Stark, %
- Volatile matter %
- Drying time in Minutes
 - a) Surface dry
 - b) Hard dry
 - c) Tack free
- Film thickness in micron
- Finish
- Flexibility & adhesion (Bend Test)
- Resistance to humidity 168 HR
- Pressure Test
- Impact resistance
- Adhesion by cross cut
- Pot life
- Residue on Sieve
- Argillaceous Matter
- Print Free Test
- Pull off test
- Calcium Compound (as CaCO_3) % by mass on dry pigment
- Volatile Organic Compound (VOC)
- Accelerated Storage Stability
- Opacity
- Moisture vapor Permeability test
- Degradation of coating
- Pencil Hardness
- Resistance to water
- Resistance to liquids, petroleum solvents & oils
- Resistance to heat
- Resistance to Acids & Alkali

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Test Facilities - Paints

- Resistance to bleeding of pigment
- Pigments & Non volatile matter
- Ash content, %
- Lead Restriction, %
- Volume Solids
- Scratch test
- Accelerated weathering
- Fastness to light
- Durability
- Salt Spray test IS 101, ASTM - B - 117, ISO 9227
ASTM D - 1654 and JSS 55555
- Gloss At 60°
- Fineness to grind
- Dry Film Thickness
- Coverage Capacity
- Colour
- Resistance to constant humidity

for scope



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1. Chemical Testing

- ♦ Inorganic fillers
- ♦ Filler content & its composition analysis
- ♦ Plasticizer, acceleration & antioxidants
- ♦ Polymer content
- ♦ Acetone extract
 - a) Plasticizer, acceleration & antioxidants
 - b) Free sulphur
- ♦ Carbon black
- ♦ Total sulphur
- ♦ Free sulphur

2. Physical Analysis

- ♦ Material Identification
- ♦ Tensile Strength & elongation
- ♦ Shear strength
- ♦ Compression SET
- ♦ Flexural test
- ♦ Tear Strength
- ♦ Hardness shore A & D
- ♦ Heat ageing at 70°C / 80°C 96 HRS i.e. as per requirement
- ♦ Water absorption
- ♦ Density
 - Food grade acceptability of plastics Overall
 - Migration, mg/kg. for food grade**
 - (US FDA Regulation 177.2600). / IS specification**
- ♦ Stimulants
 - a) Water
 - b) N - Heptane / Hexane
 - c) 3% Acetic Acid (At 20°C, 10 days)
 - d) 10% Ethanol (At 20°C, 10 days)
 - e) 95% Ethanol (At 20°C, 10 days)
- ♦ Effect of liquids on rubber
- ♦ Brittleness test
- ♦ Thickness
- ♦ Compression strength test

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Test Facilities - Plastic Products

1. Chemical Testing

- Inorganic fillers
- Filler content & its composition analysis
- Plasticizer, acceleration & antioxidants
- Polymer content

2. Physical Analysis

- Material Identification
- Tensile Strength & elongation
- Shear strength
- Compression Strength
- Flexural test
- Tear Strength
- Hardness shore D & Shore A
- Viscosity number
- Water absorption
- Dimensional stability under heat
- Melting point / softening range
- Moisture content of plastics by Karl Fischer Titrator
- Glass fill content
- Density
- Testing of Plastic materials for food grade acceptability as per IS 15410
Food grade acceptability of plastics Overall Migration, mg/kg. for food grade (US FDA Regulation 177.2600). / IS specification
- Stimulants
 - a) Water
 - b) N - Heptane / Hexane
 - c) 3% Acetic Acid (At 20°C, 10 days)
 - d) 10% Ethanol (At 20°C, 10 days)
 - e) 95% Ethanol (At 20°C, 10 days)

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Test Facilities - Plastic Products

- **Impact Test**
 - Charpy
 - Izode
- **Vicot Softening Point**
- **Melt flow index**
- **Compatibility with Petroleum products like grease**
- **GSM**
- **Seal strength**
- **Thickness**
- **Compression set**
- **Flamability as per UL 94**
- **For PVC materials**
 - a) Decomposition temperature
 - b) K-value
 - c) Bulk Density
 - d) Viscosity
 - e) Chlorine content

Test Facilities - Polyurethane Foam

- **Load quotient**
- **Hardness Number**
- **Heat ageing**
- **Flammability**

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Test Facilities - Textile Materials

(Woven & Non-Woven Fabrics)

1. Chemical Testing

- Identification of fabric
- Composition analysis of fabric
- pH of water extract
- Loss on Ignition / Inorganic fillers
- Moisture, percent
- Water soluble chloride
- Water Soluble sulphate

2. Physical Testing

- Piles
- Length Unit Mass
- Breaking Load / Tensile strength & Elongation
- Conductivity
- Yarn count :
 - a) Weft yarn per inch
 - b) Warp yarn per inch
- Construction : Threads
 - a) Warp per 100 mm
 - b) Weft per 100 mm
- GSM, gm
- Density
- Dimensional stability
- Waterproofness
- Soil release efficiency
- Colour fastness, washing fastness, perspiration, rubbing & hot press test
- Fire Retardancy
- Antibacterial Property

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Test Facilities - Textile Materials

- **Tear Strength**
- **Trapezoid test**
- **Shrinkage**
- **Tenacity**
- **Scoring loss**
- **Fatty matters**
- **Linear density**
- **Any other test as per customer requirement.**

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Test Facilities - Adhesives

(Single, Two & Three Component System Adhesives)

1. Chemical Testing

- Colour (Visual)
- Specific Gravity
- Viscosity at Various temperatures
- Epoxy content & Epoxy Index
- Pot Life

2. Mechanical Testing

- Time to Minimum Shear Strength at 23°C
 - Cure Time to reach LSS > 1 M Pa
 - Cure Time to reach LSS > 10 M Pa
- Time to Minimum Shear Strength at 23°C
- Comprehensive Strength
- Water Absorption
- Lap Shear Strength : at RT

Lap Shear strength at various temperatures on following substrates

- a) Aluminium
- b) Steel to Steel
- c) PVC to PVC
- d) Wood to Wood
- e) Stainless Steel to Stainless Steel
- f) PMMA to PMMA
- g) Polycarbonate to Polycarbonate
- h) Polyamides to Polyamides
- i) Copper to Copper
- Lap Shear strength versus temperature graph for PVC to PVC material or any desired substrate.
- Drying time
- Bond strength
 - Peel
 - Shear
- ♦ Peel Strength

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Test Facilities - Adhesives

3. Test Facilities for Sealants

- Shear Formation
- Tensile Strength & elongation
- Tear Strength
- Hardness
- Density of cured & uncured sealant
- Tack free time

4. Test Facilities for Tape Adhesives

- Tensile strength & elongation
- Peel strength
- Tack

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Test Facilities - Defence Adhesives

- Oils
- Metallic & Non metallic elements in lubricating oils
- Precipitation number
- Thiol (Mercaptan) sulphur
- Freezing point
- Total acidity
- Congealing point
- Naphthalene hydrocarbons
- Carbon residue - Conradson method
- Ash, sulphated ash & water soluble ash
- Polymeric content in lubricating oils base stock
- Moisture Content
- Density
- Volatile matter
- Soap content
- White mineral oils
- Chlorine & bromine content
- Colour by the platinum Cobalt Colour Scale
- Distillation of Petroleum Products
- Viscosity & Viscosity index
- Water by KF method
- Aniline point & Mixed aniline point
- Calorific Value
- Mineral oil content in greases
- Insolubles in greases
- Oily residues
- Sulphur content
- Asphaltans
- Heat of combustion of liquid hydrocarbon fuels by bomb calorimeter method

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- **Evaporation loss in greases**
- **Flash & Fire points**
- **Rust protections by metal preservatives in the humidity cabinet**
- **Refractive index**
- **Insoluble Contamination**
- **Foaming characteristics of Lubricating Oils**
- **Heat stability of greases**
- **Water washout characteristics**
- **Emulsion stability of emulsifiable cutting oils**
- **Smoke point**
- **Bromine number**
- **Saponification value**
- **Drop point**
- **Any other method requested by client**

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Test Facilities - Petroleum Products

- Base number of petroleum products
- Cloud point & pour point
- Thermal stability of emulsifiable cutting oils
- Metallic & Non metallic elements in lubricating oils
- Precipitation number
- Thiol (Mercaptan) sulphur
- Freezing point
- Total acidity
- Congealing point
- Naphthalene hydrocarbons
- Carbon residue - Conradson method
- Ash, sulphated ash & water soluble ash
- Polymeric content in lubricating oils base stock
- Moisture Content
- Density
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- Calorific Value
- Mineral oil content in greases
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- Smoke point
- Bromine number
- Saponification value
- Drop point
- Any other method requested by client

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Test Facilities - Chemicals

(Following types of chemicals & other materials are being tested)

- **Solid Chemicals**
 - a) Organic Chemicals
 - b) Inorganic Chemicals
- **Liquid Chemicals**
 - a) Organic Chemicals
 - b) Inorganic Chemicals
- **Petroleum products like Petrol, Diesel, Oils & Waxes etc.**
 - a) Organic Chemicals
 - b) Inorganic Chemicals
- **Building materials**
 - a) Organic Chemicals
 - b) Inorganic Chemicals
- **Coal & Coal products**
 - a) Proximate & ultimate analysis
 - b) Calorific value

The above chemicals / materials are tested for following parameters to their respective specification.

- **Purity of the main ingredient / material**
- **Chlorates % by mass**
- **Nitrites % by mass**
- **Calcium compounds % by mass**
- **Grit**
- **Metalic Iron**
- **Carbides**
- **Phosphides**
- **Free Carbon % by mass**
- **Total Iron & iron compounds % by mass**
- **Free Metalic Iron % by mass**
- **Total Silicon, Calcium & Iron % by mass**

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Test Facilities - Chemicals

- Alkalinity as CaO % by mass
- Sulphates
- Carbonates
- Phosphates
- Sodium Compounds as (NaNo) % by mass. As impurity
- Metallic Radicals other than K, Na, Nitrites as KNO
- Chlorides
- Bromates as BrO
- Nitrogen compds as N % by mass
- Alkaline earth & Iron % by mass
- Specific surface
- Organic matter % by mass
- Volatile matter
- Acidity / Alkalinity
- Relative density
- Distillation range
- Water content
- Acidity
- Nonvolatile matter
- Moisture
- Saponification value
- Iodine value
- Any other test desired by the client

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Test Facilities - Building Materials

- | | |
|---|---|
| 1) Industrial Paints - | Detailed test facilities are given in test facilities for Paints |
| 2) Plastic components - | Detailed test facilities are given in test facilities for Plastics |
| 3) Rubber components - | Detailed test facilities are given in test facilities for Rubber |
| 4) Adhesives - | Detailed test facilities are given in test facilities for Adhesives |
| 5) Textile materials - | Detailed test facilities are given in test facilities for Textiles |
| 6) Timber / wood - | Test facilities are given below |
| 7) Wall putties - | Test facilities are given below |
| 8) Tiles & Flooring - | Test facilities are given below |
| 9) Cements - | Test facilities are given below |
| 10) Test facilities for Sand & Gravels - | Test facilities are given below |
| 11) Admixtures - | Test facilities are given below |
| 12) Metalic components - | Test facilities are given below |
| 13) Fly Ash - | Test facilities are given below |
| 14) GGBS - | Test facilities are given below |
| 15) RDF Samples - | Test facilities are given below |
| 16) Leather samples - | Test facilities are given below |
| 17) Matress Foam - | Test facilities are given below |

Test Facilities - Timber / Wood

➤ Physical Tests

- 1) Identification of Timber
- 2) Visual Examination
- 3) Dimension
 - a) Width in mm
 - b) Thickness in mm
- 4) Moisture percent max.

➤ Mechanical Tests

- 5) Ultimate transverse strenght in kg. min
- 6) Anti-bacterial test

➤ Chemical Tests

- 7) Preservative content
 - a) Copper Chrome : Arsenic compounds
 - b) Acid cupric chromate compounds
 - c) Copper Naphthanate as copper
- 8) Any other test desired by clients

Test Facilities - Wall Putties

➤ Physical Tests

- 1) Colour
- 2) Physical State
- 3) Finish / Consistency
- 4) Specific Gravity
- 5) pH of 5% solution

➤ Mechanical Tests

- 6) Tensile Adhesion Strength
- 7) Water Absorption
- 8) Coverage Capacity
- 9) Pot life

• Chemical Tests

- 10) Composition
 - a) Volatile Matter
 - b) Inorganic Matter
 - c) Organic Matter
- 8) Any other test desired by clients

Test Facilities - Tiles & Flooring Adhesives

➤ Physical Tests

- 1) Tensile Adhesion
 - a) Dry Condition
 - b) Wet Condition
- 2) Shear Adhesion
 - a) Dry Condition
 - After 14 days
 - After 24 Hours
 - b) Heat Ageing Condition
 - c) Wet Condition
- 3) Open Time
- 4) Adjustability
- 5) Any other test desired by clients

Test Facilities - Cements

- Loss on ignition
- Silica
- Fe₂O₃
- Al₂O₃
- CaO
- MgO
- Chlorides
- Insoluble Residue

- Sulphuric anhydride (SO₃)
- Ratio of percentage of lime to percentage of silica, alumina and iron oxide
- Ratio of percentage of alumina to that of iron oxide
- Any other test desired by clients

Test Facilities - Sand & Gravels

- Deleterious Material
- Chlorides
- Sulphates
- Deleterious Material
- Organic Impurity
- Deleterious Material
- Any other test desired by clients

Admixtures

- Dry Material Content
- Ash Content
- Chlorides
- pH value
- Relative Density
- Any other test desired by clients

Test Facilities - Metallic Components

- Coating Thickness
- Tensile strength
- Elongation
- Chemical composition
- Any other test desired by clients

Test Facilities - Fly Ash

- Loss on ignition
- Silica
- Fe₂O₃
- Al₂O₃
- Cao
- MgO
- Chlorides
- * Insoluble Residue
- Sulphuric anhydride
- Any other test desired by clients

Test Facilities - GGBS

- Manganese Oxide
- Magnesia
- Sulphide S^{2-}
- Sulphur (S)
- Sulphate (SO_4^{--})
- Insoluble Residue
- Chloride Content
- Loss on Ignition
- Any other test desired by clients

Test Facilities - RDF Samples

- | | |
|------------------------------------|-------------------------------------|
| ➤ Moisture | ➤ Chloride Content |
| ➤ Volatile Matter 900 °C for 7 Min | ➤ Ash |
| ➤ GCV (on Dry basis) | ➤ Carbon |
| ➤ Fixed Carbon | ➤ Hydrogen |
| ➤ Nitrogen Content | ➤ Oxygen |
| ➤ Sulphur Content | ➤ Any other test desired by clients |

Test Facilities - Leather

- Apparent Density
- Water Absorption
- Tensile Strength
- Total Ash
- Degree of Tannage
- Any other test desired by clients

Test Facilities - Mattress Foam

- Fabric weight, g/m²
- Dimensions
 - a) Length
 - b) Width
- Breaking Strength, N/10 cm
- Dimensional Change
 - a) Lengthwise
 - b) Widthwise
- Scouring Loss, Percent
- pH of water extract
- Fibre identification
- Any other test desired by clients