



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **ARAB COMPANY FOR LABORATORIES AND SOIL**

KING FAISAL DISTRICT, IBN TASHEEQ STREET, VILLA NO. 11  
CENTRAL RIYADH 11542, KINGDOM OF SAUDI ARABIA

### **Testing Laboratory TL-664**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date October 31, 2023



A handwritten signature in black ink, reading 'Raj Nathan'.

**President**

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## ARAB COMPANY FOR LABORATORIES AND SOIL

[www.aces-int.com](http://www.aces-int.com)

**Contact Name** Abdel Fattah M. Ismael

**Contact Phone** +966 596421371

**Accredited to** ISO/IEC 17025:2017

**Effective Date** October 31, 2023

| CMT                                |  |
|------------------------------------|--|
| AASHTO M249                        | White and yellow reflective thermoplastic striping Material (solid form)   |
| AASHTO T166-2016                   | Standard Method of Test for Bulk Specific Gravity (Gmb) of Compacted Hot Mix Asphalt (HMA) Using Saturated Surface-Dry Specimens |
| AASHTO T180 (2015)                 | Standard Test Method for Moisture-Density Relations of Soils Using a 4.54-kg (10 lb) Rammer and a 457 mm (18 in.) Drop           |
| AASHTO DESIGNATION: T230-68 (1993) | Standard method of Test for Determining Degree of Pavement Compaction of Bituminous Aggregate Mixtures                           |
| ACI 318M                           | Building Code Requirements for Structural Concrete and Commentary  |
| ASTM A53/A53M                      | Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless                                   |
| ASTM A90/A90M                      | Standard Test Method for Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy coatings.                   |
| ASTM A370                          | Standard Test Methods and Definitions for Mechanical Testing of Steel Products (Clauses 16-19 & 20-32 excluded)                  |
| ASTM A615/A615M                    | Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement                                       |
| ASTM B117                          | Standard Practice for Operating Salt Spray (Fog) Apparatus   |
| ASTM C29/C29M                      | Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate   |
| ASTM C31/C31M                      | Standard Practice for Making and Curing Concrete Test Specimens in the Field   |
| ASTM C39/C39M                      | Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens  |
| ASTM C40/C40M                      | Standard Test Method for Organic Impurities in Fine Aggregates for Concrete  |
| ASTM C42/C42M                      | Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete   |
| ASTM C87/C87M                      | Standard Test Method for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar                                    |
| ASTM C88                           | Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate                                   |
| ASTM C97/C97M                      | Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone  |

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|                 |   |
|-----------------|---|
| ASTM C99/C99M   | Standard Test Method for Modulus of Rupture of Dimension Stone  |
| ASTM C109/C109M | Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)   |
| ASTM C117       | Standard Test Method for Materials Finer than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing  |
| ASTM C123/C123M | Standard Test Method for Lightweight Particles in Aggregate   |
| ASTM C127       | Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate   |
| ASTM C128       | Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate   |
| ASTM C131/C131M | Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine   |
| ASTM C136/C136M | Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates   |
| ASTM C138/C138M | Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete  |
| ASTM C140/C140M | Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units   |
| ASTM C142/C142M | Standard Test Method for Clay Lumps and Friable Particles in Aggregates   |
| ASTM C143/C143M | Standard Test Method for Slump of Hydraulic-Cement Concrete   |
| ASTM C170/C170M | Standard Test Method for Compressive Strength of Dimension Stone  |
| ASTM C172/C172  | Standard Practice for Sampling Freshly Mixed Concrete   |
| ASTM C187       | Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste ASTM C172/C172-14a Standard Practice for Sampling Freshly Mixed Concrete |
| ASTM C191       | Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle   |
| ASTM C192       | Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory   |
| ASTM C227       | Standard Test Method for Potential Alkali Reactivity of Cement-Aggregate Combinations (Mortar-Bar Method)   |
| ASTM C230/C230M | Standard Specification for Flow Table for Use in Tests of Hydraulic Cement  |
| ASTM C231/C231M | Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method   |
| ASTM C494/C494M | Standard Specification for Chemical Admixtures for Concrete   |
| ASTM C511       | Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes                        |
| ASTM C535       | Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine   |

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| ASTM C566         | Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying                                       |
| ASTM C617/C617M   | Standard Practice for Capping Cylindrical Concrete Specimens  |
| ASTM C702/702M    | Standard Practice for Reducing Samples of Aggregate to Testing Size   |
| ASTM C805/C805M   | Standard Test Method for Rebound Number of Hardened Concrete  |
| ASTM C880         | Standard Test Method for Flexural Strength of Dimension Stone   |
| ASTM C1019        | Standard Test Method for Sampling and Testing Grout for Masonry   |
| ASTM C1064/C1064M | Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete   |
| ASTM C1202        | Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration                 |
| ASTM C1314        | Standard Test Method for Compressive Strength of Masonry Prisms   |
| ASTM C 1354       | Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone.                                    |
| ASTM D75/D75M     | Standard Practice for Sampling Aggregates   |
| ASTM D422         | Standard Test Method for Particle-Size Analysis of Soils  |
| ASTM D512         | Standard Test Methods for Chloride Ion In Water   |
| ASTM D516         | Standard Test Method for Sulfate Ion in Water   |
| ASTM D523         | Standard Test Method for Specular Gloss   |
| ASTM D562         | Standard Test Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer      |
| ASTM D823         | Standard Practices for Producing Films of Uniform Thickness of Paint, Coatings and Related Products on Test Panels      |
| ASTM D968         | Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive                                   |
| ASTM D1005        | Standard Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers                        |
| ASTM D1067        | Standard Test Methods for Acidity or Alkalinity of Water  |
| ASTM D1125        | Standard Test Methods for Electrical Conductivity and Resistivity of Water  |
| ASTM D1140        | Standard Test Methods for Determining the Amount of Material Finer than 75- $\mu$ m (No. 200) Sieve in Soils by Washing |
| ASTM D1194        | Standard Test Method for Bearing Capacity of Soil for Static Load and Spread Footings                                   |
| ASTM D1210        | Standard Test Method for Fineness of Dispersion of Pigment-Vehicle Systems by Hegman-Type Gage                          |
| ASTM D1214        | Standard Test Method for Sieve Analysis of Glass Spheres  |
| ASTM D1293        | Standard Test Methods for pH of Water   |

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| ASTM D1475        | Standard Test Method for Density of Liquid Coatings, Inks, and Related Products  |
| ASTM D1556/D1556M | Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method  |
| ASTM D1557        | Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft <sup>3</sup> (2,700 kN-m/m <sup>3</sup> )) |
| ASTM D1883        | Standard Test Method for CBR (California Bearing Ratio) of Laboratory-Compacted Soils  |
| ASTM D2041/D2041M | Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures  |
| ASTM D2172/D2172M | Standard Test Methods for Quantitative Extraction of Bitumen From Bituminous Paving Mixtures   |
| ASTM D2216        | Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass  |
| ASTM D2369        | Standard Test Method for Volatile Content of Coatings  |
| ASTM D2419        | Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate   |
| ASTM D2486        | Standard Test Methods for Scrub Resistance of Wall Paints  |
| ASTM D2726/D2726M | Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures   |
| ASTM D2794        | Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)   |
| ASTM D2937        | Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method   |
| ASTM D3080/D3080M | Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions  |
| ASTM D3359        | Standard Test Methods for Rating Adhesion by Tape Test   |
| ASTM D3363        | Standard Test Method for Film Hardness by Pencil Test  |
| ASTM D3549/D3549M | Standard Test Method for Thickness or Height of Compacted Bituminous Paving Mixture Specimens  |
| ASTM D4138        | Standard Practices for Measurement of Dry Film Thickness of Protective Coating Systems by Destructive, Cross-Sectioning Means                              |
| ASTM D4253        | Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table   |
| ASTM D4254        | Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density   |
| ASTM D4318        | Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils   |
| ASTM D4451        | Standard Test Method for Pigment Content of Paints by Low-Temperature Ashing   |
| ASTM D4541        | Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers   |



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| ASTM D4643           | Standard Test Method for Determination of Water Content of Soil and Rock by Microwave Oven Heating   |
| ASTM D5731           | Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications                 |
| ASTM D5895           | Standard Test Methods for Evaluating Drying or Curing During Film Formation of Organic Coatings Using Mechanical Recorders <sup>1</sup>          |
| ASTM D5907           | Standard Test Methods for Filterable Matter (Total Dissolved Solids) and Nonfilterable Matter (Total Suspended Solids) in Water                  |
| ASTM D5957           | Standard Guide for Flood Testing Horizontal Waterproofing Installations  |
| ASTM D6132           | Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage |
| ASTM D6528           | Standard Test Method for Consolidated Undrained Direct Simple Shear Testing of Cohesive Soils  |
| ASTM D6926           | Standard Practice for Preparation of Bituminous Specimens Using Marshall Apparatus   |
| ASTM D6927           | Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures   |
| ASTM D6938           | Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)                        |
| ASTM D7234           | Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers                             |
| ASTM E90             | Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements                          |
| ASTM E303            | Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.  |
| ASTM E336            | Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings  |
| ASTM E709            | Standard Guide for Magnetic Particle Testing   |
| ASTM E754            | Standard Test Methods for Pull-out Resistance of Ties and Anchors Embedded in Masonry Mortar Joints.   |
| ASTM E950            | Standard Test Method for Measuring the Longitudinal Profile of Traveled Surfaces with an Accelerometer-Established Inertial Profiling Reference  |
| ASTM E1220           | Standard Practice for Visible Penetrant Testing Using Solvent-Removable Process  |
| BS 812: Part 105.2   | Testing aggregates. Methods for determination of particle shape. Elongation index of coarse aggregate  |
| BS 1377 PART 3, Cl.3 | Methods of test for Soils for civil engineering purposes — Part 3: Chemical and electro-chemical tests   |
| BS 3900              | Methods of test for paints. Index of test methods  |

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| BS 4449 Tests per BS EN ISO 15630-1 and ISO 15630-1 | Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification                                       |
| BS 5080 P.1   | Structural fixings in concrete and masonry. Method of test for tensile loading   |
| BS EN 933-3   | Tests for geometrical properties of aggregates. Determination of particle shape. Flakiness index   |
| BS EN 1744-1+A1                                     | Tests for chemical properties of aggregates. Chemical analysis   |
| BS EN 12370   | Natural stone test methods. Determination of resistance to salt crystallization.   |
| BS EN 12390-8                                       | Testing hardened concrete. Depth of penetration of water under pressure  |
| BS EN 12504-4                                       | Testing concrete. Determination of ultrasonic pulse velocity   |
| BS EN 14147   | Natural stone test methods - Determination of resistance to ageing by salt mist.   |
| DIN 55984   | Testing of pigments; Determination of hiding power value of white and light grey media   |
| EN 1015-12  | Methods of test for mortar for masonry Determination of adhesive strength of hardened rendering and plastering mortars on substrates                     |
| GB 5950   | Method for measurement of whiteness of building materials and non-metal mineral products   |
| GB 9269   | Determination of viscosity of paints and coatings – Stormer viscometer method  |
| GB 9754   | Paints and varnishes—Determination of specular gloss of non-metallic paint films at 20° 60°and 85°   |
| In-house Method                                     | PH Value of coating materials  |
| In-house Method                                     | Electrical conductivity (EC)   |
| ISO 1524  | Paints, varnishes and printing inks — Determination of fineness of grind   |
| ISO 2178  | Non-magnetic coatings on magnetic substrates — Measurement of coating thickness — Magnetic method  |
| ISO 2360  | Non-conductive coatings on non-magnetic electrically conductive base metals — Measurement of coating thickness — Amplitude-sensitive eddy-current method |
| ISO 2409  | Paints and varnishes — Cross-cut test  |
| ISO 2811  | Paints and varnishes — Determination of density — Part 1: Pycnometer method  |
| ISO 2813  | Paints and varnishes — Determination of gloss value at 20 degrees, 60 degrees and 85 degrees   |
| ISO 3251  | Paints, varnishes and plastics — Determination of non-volatile-matter content  |
| ISO 4624  | Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers   |
| ISO 6504-3  | Paints and varnishes — Determination of hiding power — Part 3: Determination of hiding power of paints for masonry, concrete and interior use            |
| ISO 11998   | Paints and varnishes — Determination of wet-scrub resistance and clean ability of coatings   |

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| ISO 16474-1      | Paints and varnishes — Methods of exposure to laboratory light sources — Part 1: General guidance     |
| ISO 16474-3      | Paints and varnishes — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps |
| NZS - 4298       | Standard Test Methods for Materials and Workmanship for Earth Building.                               |
| <b>CHEMISTRY</b> |   |
| APHA 9222B       | Total coliform by membrane filtration procedure   |
| APHA 9222D       | Fecal coliform by membrane filtration procedure   |
| APHA 9222H       | <i>Escherichia coli</i> by membrane filtration procedure  |
| ISO 11731        | <i>Legionella</i> by membrane filtration procedure  |