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Laboratory material testing

Materials Consultants Pty Ltd was established in 1990 and is a leading Perth based independent construction materials testing company. Servicing civil engineering and the construction industries throughout Western Australia, we specialise in laboratory and field testing of: Soils Aggregate and Concrete Since inception we have developed a reputation for providing customers with timely and quality testing services from either our base laboratory in Bassendean or project site laboratories. Repeat business from a loyal client base is testament to the professional, personalised and quality service we offer. Our services are engaged in the following industries: Roads, Highways and Freeways Mine site infrastructure Subdivisions Commercial / industrial developments Quarry products Railways Ports 300 Collier Rd, Bassendean, WA Australia, 6054 Ph: (08) 6278 3755 AS/NZS 4858 is the primary Australian standard that relates to the physical performance properties of waterproofing membranes specified for use... AS/NZS 4586 is the primary Australian standard that relates to the slip resistance classifications of new pedestrian surface materials. Testing... Ultraviolet (UV) radiation from sunlight can cause material degradation, colour fading and structural changes over time. Other outdoor environmental conditions... Tensile strength testing is a fundamental method for characterising the mechanical properties of waterproofing membranes, coatings, and other materials and... AS 4654 is the primary Australian standard that relates to the physical performance properties of waterproofing membranes specified for use... ITA is equipped to conduct the following AP-S4003 testing: · AS/ISO 13007.5 clause A.7-Water impermeability · AS/NZS 4858: Moisture... Adhesion testing assesses the strength of material bonds and is vital in the manufacturing, construction, automotive and aerospace industries where... Terra Firma Laboratories is one of most trusted geotechnical and material testing laboratories worldwide, building strong relationships with multinationals, joint ventures and governments. We deliver a full range of soil, aggregate and concrete testing across major construction and infrastructure projects. Terra Firma Labs is redefining geotechnical laboratory integrity with its fleet of ready-to-deploy annex laboratories. We provide one of Australia's most advanced geosynthetics testing services for clay liners, geotextiles and geomembranes. We have extensive experience facilitating the construction of new cells for EPA Licensed Landfills across Victoria. Norner is a laboratory with more than 40 years of industrial experience in material testing of plastics as well as product and application development which ensure high competence for our wide range of test methods. The material testing laboratory characterise mechanical and other physical properties of plastic materials and products. This enable our customers to verify product performance and understand their strength and weakness. The material testing services cover important features like: Mechanical strength, stiffness and hardness Impact and compression performance Material density Long term behaviour under stress and fatigue Heat resistance and conductivity Abrasion and wear Optical and electrical properties Send us a request Read more about other testing service areas. Norner has unique competence in the main application areas and businesses of plastics. See testing areas Norner offers testing of non-metallic materials for harsh environments. See testing areas Characterisation of materials and components We have long term experience with characterisation of properties of most materials. This includes also function testing and load tolerance testing of components and products. SINTEF uses standard and inhouse test methods, which opens for demanding and customer specific requests. Fracture mechanics- and fatigue testing Nationally SINTEF holds the leading laboratory for fatigue- and fracture mechanics testing. We test at different temperatures and environments. By duplicating real conditions we are able to investigate how different materials and components hold when affected by fatigue and material defects. The methods we use for testing Tensile testing/Compression testing; Calculation of true stress-strain data is performed by means of direct measurement of diameter change during loading, using a two-directional laser. The equipment is developed by the SINTEF MA-lab. Beyond that we cover: 1. Pendulum impact testing (Charpy V), also instrumented 2. Bend testing 3. Torsion testing (could be combined with tension-compression) 4. Fracture mechanics testing 5. Fatigue testing 6. Long term testing when a corrosive environment is combined with fatigue, creep and/or fracture 7. Component tests following the specification of the customer Laboratory equipment Universal testing machines: · Dartec 20kN (Servo hydraulic) · Zwick 30kN · Instron 250kN · Instron BiAxial 100kN, 1100Nm (Servohydr. with hydr. grips) · Dartec 500kN (Servohydr. with hydr. grips) · Losenhausen UHP 60, 600kN (Hydr.) · Schenk-Instron 1000kN (Servohydr. with hydr. grips) Pendulum impact testing: · Zwick RKP 450J acc. ISO 148 · Losenhausen 300J, instrumented Charpy · Zwick 50J High frequency magnetic resonance fatigue test machines · Amsler 50kN · Instron 100kN Temperature chambers og Cryostats: · Severn Thermal Solutions Chamber, -150°C to +600°C · 2 pc. Instron model 3119 Chambers, -150°C to +600°C · 2 pc. Zwick Chamber, -80°C to +250°C · 2 pc. Julabo Cryostats (alcohol bath), -85°C to +22°C · 1 pc. Sigmatest induction heating, RT to +1200°C Norner provides high expertise in material and analytical testing, evaluation of physical and chemical properties, environmental influence on material properties, as well as testing of finished plastic products. Our clients appreciate these services as part of R&D projects, 3rd party product testing and verification, quality control or failure analysis. Our ISO 9001 certified laboratory ensures high quality testing with focus on health, environment and safety (HSE). We are also member of Achilles and have ISO 17025 accreditation for our coating testing. Contact us and we will support you Laboratory Testing of Soils, Crushed Rock, Concrete and Aggregates. Our Laboratory is NATA accredited for a range of both Australian Standards and Main Roads Western Australia test methods. Field Testing A range of field testing including compaction control by use of a Nuclear Density Meter and penetrometers, aggregate seal testing for resealing works and the sampling of fresh concrete for slumps and compressive strength determination. Establishment of Mobile/Annex Laboratories. For remote projects, or where dedicated materials testing assistance is required, we are able to supply fully operational field laboratories.