

Accreditation Scope


 TÜRKAK  Test TS EN ISO/IEC 17025 AB-0001-T	TSE DENEY LABORATUVARLARI MERKEZİ BAŞKANLIĞI Ankara Deney Laboratuvarları Accreditation Number: AB-0001-T Revision Number: 06 Date: 18 September 2009	
	Test Laboratory	
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
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ELECTRICAL LABORATORY


PVC Insulated Cables	Electrical test methods for low voltage energy cables	TS EN 50395 EN 50395
	Non electrical test methods for low voltage energy cables	TS EN 50396 EN 50396
	Cables of rated voltages up to and including 450/750 V and having thermoplastic insulation -- Part 1: General requirements	TS 9756 HD 21.1 S4 HD 21.1 S4
	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V part 3 - Non sheathed cables for fixed wiring	TS 9758 HD 21.3 S3 HD 21.3 S3
	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V part 4-Sheathed cables for fixed wiring	TS 9759 HD 21.4 S2 HD 21.4 S2
	Polyvinyl Chloride Insulated Cables of Rated Voltages up to and Including 450/750 V Part 5: Flexible Cables (Cords)	TS 9760 HD 21.5 S3 HD 21.5 S3
	Polyvinyl Chloride Insulated Cables of Rated Voltages up to and Including 450/750 V Part 7: Single Core Non-Sheathed Cables for Internal Wiring for a Conductor Temperature of 90°C	TS HD 21.7 S2 HD 21.7 S2
	Polyvinyl chloride insulated cables of radet volgages up to and including 450/750 V-Part 8: Single core nonsheathed cables for decorative chains	TS HD 21.8 S2 HD 21.8 S2
	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V -- Part 9: Single core non-sheathed cable for installation at low temperatures Amendment 1	TS HD 21.9 S2 HD 21.9 S2

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(PVC Insulated Cables Continued)	Polyvinyl chloride insulated cables of rated voltages up to including 450/750 V- Part 11: Cables for luminaries Amendment 1	TS HD 21.11 S1 HD 21.11 S1
	Polyvinyl Chloride Insulated Cables of Rated Voltages up to and Including 450/750 V- Part 12: Heat-Resistant Flexible Cables (Cords)	TS HD 21.12 S1 HD 21.12 S1
	Polyvinyl Chloride Insulated Cables of Rated Voltages Up To and Including 450/750 V - Part 13: Oil Resistant PVC Sheathed Cables with Two or More Conductors	TS HD 21.13 S1 HD 21.13 S1
	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation -- Part 14: Flexible cables (cords), insulated and sheathed with halogen-free thermoplastic compounds	TS HD 21.14 S1 HD 21.14 S1
	Cables of rated voltage up to and including 450/750 V and having termoplastic insulation Part 15: Single core cables, insulated with halogen-free thermoplastic compound, for fixed wiring	TS HD 21.15 S1 HD 21.15 S1
Rubber Insulated Cables	Cables of rated voltages up to and including 450/750 V and having cross-linked insulation -- Part 1: General requirements	TS 9762 HD 22.1 S4 HD 22.1 S4
	Rubber Insulated Cables of Rated Voltages up to and Including 450/750 V Part 3: Heat Resistant Silicone Rubber Insulated Cables	TS 9764 HD 22.3 S4 HD 22.3 S4
	Rubber Insulated Cables of Rated Voltages up to and Including 450/750 V Part 4: Cords and Flexible Cables	TS 9765 HD 22.4 S4 HD 22.4 S4
	Rubber Insulated Cables of Rated Voltages up to and Including 450/750 V Part 6: Arc Welding Cables	TS 9767 HD 22.6 S2 HD 22.6 S2

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(Rubber Insulated Cables Continued)	Rubber insulated cables to rated voltages up to and including 450/750 V- Part 7: Cables with increased heat resistance for internal wiring for a conductor temperature of 110 C	TS HD 22.7 S2 HD 22.7 S2
	Rubber insulated cables of rated voltages up to and including 450/750 V Part 8: Polychloropene or equivalent synthetic elastomer sheathed cable for decorative chains	TS HD 22.8 S2 HD 22.8 S2
	Rubber Insulated Cables of Rated Voltages up to and Including 450/750 V Part 9: Single Core Non-Sheathed Cables for Fixed Wiring Having Low Emission of Smoke and Corrosive Gases	TS HD 22.9 S3 HD 22.9 S3
	Rubber insulated cables of rated voltages up to including 450/750 V Part 10: Epr insulated and polyurethane sheathed flexible cable	TS HD 22.10 S2 HD 22.10 S2
	Cables of rated voltages up to including 450 / 750 V and having cross-linked insulation Part 11: EVA cords and flexible cables	TS HD 22.11 S2 HD 22.11 S2
	Cables of rated voltages up to including 450 / 750 V and having cross-linked insulation - Part 12: Heat resistant EPR cords and flexible cables	TS HD 22.12 S2 HD 22.12 S2
	Cables of rated voltages up to including 450 / 750 V and having cross-linked insulation Part 13: Halogen-free flexible cables having low emission of smoke	TS HD 22.13 S2 HD 22.13 S2
	Cables of rated voltages up to including 450 / 750 V and having cross-linked insulation - Part 14 : Cords for applications requiring high flexibility	TS HD 22.14 S3 HD 22.14 S3
	Cables of rated voltages up to and including 450/750 V and having cross-linked insulation - Part 15: Multicore cables insulated and sheathed with heat resistant silicone rubber	TS HD 22.15 S2 HD 22.15 S2

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Lift cables and Cables for Flexible Connctions	Polyvinyl Chloride Insulated Cables of Rated Voltages up to and Including 450/750 V Part 6:Lift Cables and Cables for Flexible Connections	TS IEC 60227-6 IEC 60227-6
	Flat Polyvinyl Choride sheathed flexible cables	TS EN 50214 EN 50214
Conduit Systems for Electrical Installations	Rigid conduit systems	TS EN 61386-1 EN 61386-1 TS EN 61386-21 EN 61386-21
	Pliable conduit systems	TS EN 61386-1 EN 61386-1 TS EN 61386-22 EN 61386-22
Distribution Cables	Distribution cables of rated voltage 0,6 / 1 kV	TS HD 603 S1 HD 603 S1
	Test methods for accessories for power cables with rated voltages from 6 kV (U<(Index)m> = 7, 2 kV) up to 30 kV (U<(Index)m> = 36 kV)	TS IEC 60502-1 IEC 60502-1
	0,6 / 1 kV and 1,9 / 3,3 kV power cables with special fire performance for use in power stations	TS HD 604 S1 HD 604 S1
Cables for Vehicles	Cables for Vehicles	TS 1435
Cables and Cords	Test methods and requirements for accessories for use on distribution cables of rated voltage 0,6/1,0 (1,2) kV	TS EN 50393 EN 50393
	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (U<(Index)m> = 1, 2 kV) up to 30 kV (U<(Index)m> = 36 kV) - Part 1: Cables for rated voltages of 1 kV (U<(Index)m> = 1, 2 kV) and 3 kV (U<(Index)m> = 3, 6 kV)	TS IEC 60502-2 IEC 60502-2
	Cable management - Cable tray systems and cable ladder systems	TS EN 61537 EN 61537
Household And Similar Appliances	Safety of Household and Similar Electrical Appliances - Part 1: General Requirements	TS 2000 EN 60335-1 EN 60335-1 IEC 60335-1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Household And Similar Appliances Continued)	Safety of Household and Similar Electrical Appliances - Part 2.2: Particular Requirements for Vacuum Cleaners and Water Suction Cleaning Appliances	TS 2001 EN 60335-2-2 EN 60335-2-2 IEC 60335-2-2
	Safety of Household and Similar Electrical Appliances-Part 2-3: Particular Requirements for Electric Irons	TS 2002 EN 60335-2- 3 EN 60335-2-3 IEC 60335-2-3
	Safety of Household and Similar Electrical Appliances-Part 2.5: Particular Requirements for Dishwashers	TS 11300 EN 60335-2-5 EN 60335-2-5 IEC 60335-2-5
	Safety of Household and Similar Electrical Appliances - Part 2.6: Particular Requirements for Cooking Ranges, Cooking Tables, Ovens and Similar Appliances for Household Use	TS 2003 EN 60335-2-6 EN 60335-2-6 IEC60335-2-6
	Safety of Household and Similar Electrical Appliances Part 2.7: Particular Requirements for Washing Machines	TS 2004 EN 60335-2-7 EN 60335-2-7 IEC60335-2-7
	Safety of Household and Similar Electrical Appliances Part 2-9: Particular Requirements for Toasters Grills, Roasters and Similar Portable Appliances	TS 2005 EN 60335-2-9 EN 60335-2-9 IEC60335-2-9
	Safety of Household and Similar Electrical Appliances Part 2.11 Particular Requirements for Tumble Dryers	TS EN 60335-2-11 EN 60335-2-11 IEC60335-2-11
	Safety of Household and Similar Electrical Appliances - Part 2.13: Particular Requirements for Deep Fat Fryers, Frying Pans and Similar Appliances	TS 2060 EN 60335-2-13 EN 60335-2-13 IEC60335-2-13
	Safety of Household and Similar Electrical Appliances - Part 2-14: Particular Requirements for Kitchen Machines	TS 2061 EN 60335-2-14 EN 60335-2-14 IEC60335-2-14
	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids	TS 4788 EN 60335-2-15 EN 60335-2-15 IEC60335-2-15

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(Household And Similar Appliances Continued)	Safety of household and similar electrical appliances - Part 2-21: Particular requirements for storage water heaters; (Amendment A12)	TS 2212 EN 60335-2-21 EN 60335-2-21 IEC 60335-2-21
	Safety of household and similar electrical appliances - Part 2-23: Particular requirements for appliances for skin and hair care; (Amendment A1)	TS 374 EN 60335- 2- 23 EN 60335-2-23 IEC 60335-2-23
	Household and similar electrical appliances - safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	TS 2225 EN 60335-2-24 EN 60335-2-24 IEC60335-2-24
	Household and similar electrical appliances - Safety Part 2-28: Particular requirements for sewing machines	TS EN 60335-2-28 EN 60335-2-28 IEC60335-2-28
	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	TS EN 60335-2-29 EN 60335-2-29 IEC 60335-2-29
	Safety of household and similar electrical appliances - Part 2: Particular requirements for room heaters	TS 5107 EN 60335-2-30 EN60335-2-30 IEC60335-2-30
	Household and similar electrical appliances - Safety - Part 2-31 : Particular requirements for range hoods	TS EN 60335- 2- 31 EN60335-2-31 IEC60335-2-31
	Household and similar electrical appliances -Safety - Part 2-35: Particular requirements for instantaneous water heaters	TS 6844 EN 60335-2-35 EN60335-2-35 IEC60335-2-35
	Safety of Household and Similar Electrical Appliances-Part 2-43: Particular Requirments for Clothes Dryers and Towel Rails	TS EN 60335- 2- 43 EN60335-2-43 IEC60335-2-43
	Safety of Household and Similar Electrical Appliances Part 2.44: Particular Requirements for Electric Ironers	TS EN 60335- 2- 44 EN60335-2-44 IEC60335-2-44

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Household And Similar Appliances Continued)	Safety of Household and Similar Electrical Appliances Part 2-45: Particular Requirements for Portable Heating Tools and Similar Appliances	TS EN 60335- 2- 45 EN60335-2-45 IEC60335-2-45
	Safety of Household and Similar Electrical Appliances-Part 2.80: Particular Requirements for Fans	TS 433 EN 60335-2-80 EN60335-2-80 IEC60335-2-80
Capacitors for A.C. Motors	A.C. Motor Capacitors	TS 1056-1 EN 60252-1 EN 60252-1
Accessories And Connecting Devices For Electrical Installations	Switches for Electrical Appliances; Part 1: General Requirements	TS EN 61058-1 EN 61058-1
	Switches for Household and Similar Fixed-Electrical Installations Part 1: General Requirements	TS 4915 EN 60669-1 EN 60669-1
	Connecting Devices for Low Voltage Circuits for Household and Similar Purposes Part 1: General Requirements	TS 10486 EN 60998-1 EN 60998-1
	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	TS 10487 EN 60998-2-1 EN 60998-2-1
	Boxes and enclosures for electrical accessories for household and similar fixed electrical installation - Part 1: General requirements	TS EN 60670-1 EN 60670-1
	Flat non-rewirable two-pole plugs, 2,5 A 250 V, with cord, for the connection of class II-equipment for household and similar purposes	TS EN 50075 EN 50075
Lighting	Glow-Starters for Fluorescent Lamps	TS 805 EN 60155 EN 60155 IEC 60155
	Lamp controlgear -- Part 1: General and safety requirements	TS EN 61347-1 EN 61347-1 IEC 61347-1
	Lamp controlgear - Part 2-8: Particular requirements for ballasts for fluorescent lamps	TS EN 61347-2-8 EN 61347-2-8 IEC 61347-2-8

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Lighting Continued)	Lamp controlgear -- Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)	TS EN 61347-2-9 EN 61347-2-9 IEC 61347-2-9
Transformers	Safety of power transformers, power supply units and similar - Part 1: General requirements and tests	TS EN 61558-1 EN 61558-1 IEC 61558-1
	Safety of power transformers, power supply units and similar - Part 2-4: Particular requirements for isolating transformers for general use	TS EN 61558-2-4 EN 61558-2-4 IEC 61558-2-4
	Safety of power transformers, power supply units and similar-Part 2: Particular requirements for safety isolating transformers for general use	TS EN 61558-2-6 EN 61558-2-6 IEC 61558-2-6
	Safety of power transformers, power supply units and similar- Part 2-8: Particular requirements for bell and chime transformers	TS EN 61558-2-8 EN 61558-2-8 IEC 61558-2-8
	Instrument transformers - Part 1: Current transformers - Tests can be done up to 36 kV (Including) Excluding of Test "Radio Interference Voltage Measurement	TS 620 EN 60044-1 EN 60044-1 IEC 60044-1
Plugs and Socket Outlets	Marking	TS 40 TS IEC 60884-1 IEC 60884-1
	Checking of Dimensions	TS 40 TS IEC 60884-1 IEC 60884-1
	Protection Against Electric Shock	TS 40 TS IEC 60884-1 IEC 60884-1
	Provision of Earthing	TS 40 TS IEC 60884-1 IEC 60884-1
	Terminals	TS 40 TS IEC 60884-1 IEC 60884-1
	Construction of Fixed Socket- Outlets	TS 40 TS IEC 60884-1 IEC 60884-1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Plugs and Socket Outlets Continued)	Construction of Plugs and Portable Socket- Outlets	TS 40 TS IEC 60884-1 IEC 60884-1
	Resistance to Ageing, to Harmful Ingress of Water and to Humidity	TS 40 TS IEC 60884-1 IEC 60884-1
	Insulation Resistance and Electric Strength	TS 40 TS IEC 60884-1 IEC 60884-1
	Temperature Rise	TS 40 TS IEC 60884-1 IEC 60884-1
	Breaking Capacity	TS 40 TS IEC 60884-1 IEC 60884-1
	Normal Operation	TS 40 TS IEC 60884-1 IEC 60884-1
	Force Necessary to Withdraw the Plug	TS 40 TS IEC 60884-1 IEC 60884-1
	Flexible Cables and Their Connection	TS 40 TS IEC 60884-1 IEC 60884-1
	Mechanical Strength	TS 40 TS IEC 60884-1 IEC 60884-1
	Resistance to Heat	TS 40 TS IEC 60884-1 IEC 60884-1
	Screws, Current Carrying Parts and Connections	TS 40 TS IEC 60884-1 IEC 60884-1
	Creepage Distances, Clearences and Distances Through Sealing Compound	TS 40 TS IEC 60884-1 IEC 60884-1
	Resistance of Insulating Material to Abnormal Heat, to Fire and to Tracking	TS 40 TS IEC 60884-1 IEC 60884-1
	Resistance to Rusting	TS 40 TS IEC 60884-1 IEC 60884-1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electromagnetic Compatibility - Residential, Commercial and Light - Industrial Environments	Mains Terminal Disturbance Voltage (150kHz - 30MHz) Network: Mono phase and triphase, 0-16A	TS EN 61000-6-3 EN 61000-6-3 IEC 61000-6-3
	Electrostatic Discharge Immunity Test (+/- polarities; Air Discharge: 200V - 16.5kV, Contact Discharge: 200V - 9kV)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
	Electrical Fast Transient/ Burst Immunity Test (Voltage Level: 0-4800 V, f: 0-1000 kHz)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
	Surge Immunity Test (0.2 - 6,6 kV aralığında)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
	Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields (Frequency Range 150kHz - 230MHz ; at levels 1V, 3V, 10V)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
Electromagnetic Compatibility - Industrial Environments Products	Mains Terminal Disturbance Voltage (150kHz - 30MHz) Network: Mono phase and tri phase, 0-16A	TS EN 61000-6-4 EN 61000-6-4 IEC 61000-6-4
	Electrostatic Discharge Immunity Test (+/- polarities; Air Discharge: 200V - 16.5kV, Contact Discharge: 200V - 9kV)	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
	Electrical Fast Transient / Burst Immunity Test (Voltage Level: 0-4800 V, f: 0-1000 kHz)	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
	Surge Immunity Test (0.2 - 6,6 kV aralığında)	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
	Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields (Frequency Range 150kHz - 230MHz ; at levels 1V, 3V, 10V)	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
Electromagnetic Compatibility - Household Appliances, Electric Tools and Similar Apparatus	Mains Terminal Disturbance Voltage (150kHz - 30MHz) Network: Monophase and triphase, 0-16A	TS EN 55014-1 EN 55014-1 CISPR 14-1

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(Electromagnetic Compatibility - Household Appliances, Electric Tools and Similar Apparatus Continued)	Mains Terminal Disturbance Voltage (30MHz - 300MHz)	TS EN 55014-1 EN 55014-1 CISPR 14-1
	Discontinuous Interference (160 kHz, 500 kHz, 1.4 MHz, 30 Hz) Network: Monophase and triphas, 0-16A	TS EN 55014-1 EN 55014-1 CISPR 14-1
	Electrostatic Discharge Immunity Test (+/- polarities; Air Discharge: 200V - 16.5kV, Contact Discharge: 200V - 9kV)	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Electrical Fast Transient/ Burst Immunity Test (Voltage Level: 0-4800 V, f: 0-1000 kHz)	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Surge Immunity Test (0.2 - 6,6 kV interval)	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields (Frequency Range 150kHz - 230MHz ; at levels 1V, 3V, 10V)	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Voltage Dips, Short Interruptions And Voltage Variations ImmunityTests (Between Levels %0.UT - %100.UT; time periods 0.05 - 9999ms)	TS EN 55014-2 EN 55014-2 CISPR 14-2
Electromagnetic Compatibility - Information Technology Equipments	Mains Terminal Disturbance Voltage (150kHz - 30MHz) Network: monophase and triphase, 0-16A	TS EN 55022 EN 55022 CISPR 22
	Electrostatic Discharge Immunity Test (+/- polarities; Air Discharge: 200V - 16.5kV,	TS EN 55024 EN 55024 CISPR 24
	Electrical Fast Transient/ Burst Immunity Test (Voltage level: 0-4800 V, f: 0-1000 kHz)	TS EN 55024 EN 55024 CISPR 24
	Surge Immunity Test (0.2 - 6,6 kV interval)	TS EN 55024 EN 55024 CISPR 24

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Electromagnetic Compatibility - Information Technology Equipments Continued)	Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields (Frequency Range 150kHz - 230MHz; at levels 1V, 3V, 10V)	TS EN 55024 EN 55024 CISPR 24
	Voltage Dips, Short Interruptions And Voltage Variations Immunity Tests (Between Levels %0.UT - %100.UT; time periods 0.05 - 9999ms)	TS EN 55024 EN 55024 CISPR 24
Electromagnetic Compatibility - Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment	Mains Terminal Disturbance Voltage (150kHz - 30MHz) Network: Mono phase and triphase, 0-16A	TS EN 55011 EN 55011 CISPR 11
Electromagnetic Compatibility - Equipment with Rated Current up to 16A per Phase	Harmonics (Between harmonics 2-40.)	TS EN 61000-3-2 EN 61000-3-2 IEC 61000-3-2
	Voltage Changes, Fluctuations And Flicker (transient and prolonged)	TS EN 61000-3-3 EN 61000-3-3 IEC 61000-3-3
Electromagnetic Compatibility-Electrical and Electronics Equipment subjected to Static Electricity Discharges, From Operators Directly and to adjacent Objects	Electrostatic Discharge Immunity Test (+/- polarities; Air Discharge: 200V - 16.5kV, Contact Discharge: 200V - 9kV)	TS EN 61000-4-2 EN 61000-4-2 IEC 61000-4-2
Electromagnetic Compatibility - Electrical and electronic Equipment Subjected To Electrical Fast Transient/Burst	Electrical Fast Transient/ Burst Immunity Test (Voltage Level: 0-4800 V, f: 0-1000 kHz)	TS EN 61000-4-4 EN 61000-4-4 IEC 61000-4-4
Electromagnetic Compatibility - Electrical and Electronic Equipment Subjected To unidirectional surges caused by over volteges from switching and lighting transients	Surge Immunity Test (0.2 - 6,6 kV interval)	TS EN 61000-4-5 EN 61000-4-5 IEC 61000-4-5
Electromagnetic Compatibility - Electrical And Electronic Equipment Subjected To Conducted Disturbances, Induced By Radio - Frequency Fields From 9 kHz to 80 MHz	Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields (Frequency Range 150kHz - 230MHz; at levels 1V, 3V, 10V)	TS EN 61000-4-6 EN 61000-4-6 IEC 61000-4-6

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electromagnetic Compatibility - Electrical and Electronic Equipment Connected To Low Voltage Power Supply	Voltage Dips, Short Interruptions And Voltage Variations Immunity Tests (Between Levels %0.UT - %100.UT; time periods 0.05 - 9999ms)	TS EN 61000-4-11 EN 61000-4-11 IEC 61000-4-11
Electromagnetic Compatibility - Equipment With Rated Current up to 16A per Phase	Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	TS EN 61000-4-13 EN 61000-4-13 IEC 61000-4-13

CHEMISTRY LABORATORY


-Heating Fuels-Fatty Acid Methyl Esters (FAME) -Automotive Fuels- Fatty Acid Methyl Esters (FAME)	Determination of Acid Value	TS EN 14104 EN 14104
	Determination of Iodine Value	TS EN 14111 EN 14111
-Automotive Fuels-Diesel -Automotive Fuels-Unleaded Petrol -Fuel-Oil -Heating Fuels-Fatty Acid Methyl Esters (FAME) -Automotive Fuels- Fatty Acid Methyl Esters (FAME) -Mineral Oils	Determination of density	TS EN ISO 12185 EN ISO 1285 ISO 1285
-Automotive Fuels-Diesel -Automotive Fuels-Unleaded Petrol	Determination of distillation characteristics	TS 1232 EN ISO 3405 EN ISO 3405 ISO 3405
-Automotive Fuels - Unleaded Petrol -Fuel-Oil	Determination of sulfur content	TS EN ISO 8754 EN ISO 8754 ISO 8754
-Automotive Fuels - Diesel -Automotive Fuels - Petrol	Determination of total sulfur content - Ultraviolet fluorescence method	TS EN ISO 20846 EN ISO 20846 ISO 20846
-Automotive Fuels - Diesel	Calculation of cetane index	TS EN ISO 4264 ISO 4264 EN ISO 4264
-Automotive Fuels-Diesel -Automotive Fuels-Unleaded Petrol -Automotive Fuels- Fatty Acid Methyl Esters (FAME) -Mineral Oils	Corrosiveness to copper strip	TS 2741 EN ISO 2160 EN ISO 2160 ISO 2160
-Automotive Fuels-Diesel Fatty Acid Methyl Esters (FAME)	Determination of water - Coulometric Karl Fischer titration method	TS 6147 EN ISO 12937 EN ISO 12937 ISO 12937

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
-Automotive Fuels-Diesel Fatty Acid Methyl Esters (FAME)	Determination of carbon residue - Micro method	TS 6148 EN ISO 10370 ISO 10370 EN ISO 10370
-Automotive Fuels - Petrol	Vapour pressure	TS EN 13016-1 EN 13016-1
-Automotive Fuels-Diesel -Fuel-Oil -Heating Fuels-Fatty Acid Methyl Esters (FAME) -Automotive Fuels- Fatty Acid Methyl Esters (FAME) -Mineral Oils	Determination of Viscosity	TS 1451 EN ISO 3104 EN ISO 3104 ISO 3104
-Mineral Oils	Calculation of viscosity index	TS 3096 ISO 2909 ISO 2909
-Automotive Fuels-Diesel -Fuel-Oil	Determination of flash point - Pensky-Martens closed cup method	TS EN ISO 2719 EN ISO 2719 ISO 2719
-Mineral Oils -Engine Coolant	Determination of flash and fire points - Cleveland open cup method	TS EN ISO 2592 EN ISO 2592 ISO 2592
-Automotive Fuels-Diesel -Heating Fuels-Fatty Acid Methyl Esters (FAME) -Automotive Fuels- Fatty Acid Methyl Esters (FAME)	Determination of cold filter plugging point	TS EN 116 EN 116
-Fuel-Oil -Heating Fuels-Fatty Acid Methyl Esters (FAME) -Mineral Oils	Determination of pour point	TS 1233 ISO 3016 ISO 3016
Motorin Fuel-Oil Yağlama Yağları	Determination of ash	TS EN ISO 6245 EN ISO 6245 ISO 6245
Heating Fuels-Fatty Acid Methyl Esters (FAME) -Automotive Fuels- Fatty Acid Methyl Esters (FAME) -Mineral Oils	Determination of sulfated ash	TS 1985 ASTM D 874
Cement	Determination of Loss On Ignition	TS EN 196-2 EN 196-2
	Determination of Chloride	TS EN 196-21 EN 196-21
	Determination of Residue Insoluble in HCl and Na ₂ CO ₃	TS EN 196-2 EN 196-2
	Gravimetric Determination of Sulphate	TS EN 196-2 EN 196-2

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Cement Continued)	Pozzolanicity Test	TS EN 196-5 EN 196-5
Rubber	Determination of Density- (Method A)	TS 2827 ISO 2781 ISO 2781
Plastics	Determination of Density- (Method A)	TS 1310
	Determination of Hardness (Shore A and D)	TS EN ISO 868 EN ISO 868 ISO 868
Iron and Steel	Determination of Manganese Content Flame Atomic Absorption Spectrometric (AAS) Method	TS EN ISO 10700 EN ISO 10700 ISO 10700
	Determination of Nickel Content (AAS Method)	TS 9171 EN 10136 EN 10136
	Determination of Copper Content (AAS Method)	TS EN 24943 EN 24943
	Determination of Chromium Content (AAS Method)	TS EN 10188 EN 10188
	Determination of Aluminium Content (AAS Method)	TS EN 29658 EN 29658
	Determination of Carbon and Sulfur Content	ASTM-E 1019
	Elemental analyses of Al, Cr, Mn, Mo, Ni, P, Si, Ti, V in Iron and Steel by ICP (Inductively Coupled Plasma	In-house Method -16.40.02.DT.037
	Fertilizers	Determination of Total Nitrogen Content
Ammonium Nitrate Fertilizers	Determination of Carbon Content	ASTM D 5291-96
Toys	Small Parts Cylinder	TS EN 71-1 EN 71-1
	Torque Test	TS EN 71-1 EN 71-1
	Drop Test	TS EN 71-1 EN 71-1
	Tip Over Test	TS EN 71-1 EN 71-1
	Soaking Test	TS EN 71-1 EN 71-1
	Accessibility of a part or component	TS EN 71-1 EN 71-1
	Sharpness of edges	TS EN 71-1 EN 71-1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Toys Continued)	Sharpness of points	TS EN 71-1 EN 71-1
	Flexibility of Wires	TS EN 71-1 EN 71-1
	Geometric Shape of Certain Toys	TS EN 71-1 EN 71-1
	Durability of Mouth Actuated Toys	TS EN 71-1 EN 71-1
	Folding or Sliding Mechanisms	TS EN 71-1 EN 71-1
	Cord Thickness	TS EN 71-1 EN 71-1
	Static Strength	TS EN 71-1 EN 71-1
	Dynamic Strength	TS EN 71-1 EN 71-1
	Stability Test	TS EN 71-1 EN 71-1
	Determination of Kinetic Energy	TS EN 71-1 EN 71-1
	Flammability	TS EN 71-2 EN 71-2

CONSTRUCTION MATERIALS LABORATORY


Terrazzo tiles - Part 1: Terrazzo tiles for internal use	Dimensional deviations	TS 213-1 EN 13748-1 EN 13748-1
	Straightness of edges of the upper face	TS 213-1 EN 13748-1 EN 13748-1
	Flatness of the upper face	TS 213-1 EN 13748-1 EN 13748-1
	Breaking strength and Breaking load	TS 213-1 EN 13748-1 EN 13748-1
	Water absorption	TS 213-1 EN 13748-1 EN 13748-1
Terrazzo tiles - Part 2: Terrazzo tiles for external use	Dimensional deviations	TS 213-2 EN 13748-2 EN 13748-2
	Straightness of edges of the upper face	TS 213-2 EN 13748-2 EN 13748-2
	Flatness of the upper face	TS 213-2 EN 13748-2 EN 13748-2
	Breaking strength and Breaking load	TS 213-2 EN 13748-2 EN 13748-2

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Terrazzo tiles - Part 2: Terrazzo tiles for external use Continued)	Water absorption	TS 213-2 EN 13748-2 EN 13748-2
Cement	Determination of strength	TS EN 196-1 EN 196-1
	Soundness	TS EN 196-3 EN 196-3
	Setting time	TS EN 196-3 EN 196-3
	Whiteness test	In house Method-16.40.03.DT.001
Wood-based panels	Determination of moisture content	TS EN 322 EN 322
	Determination of density	TS EN 323 EN 323
	Determination of dimensions of boards- Part 1: Determination of thickness, width and length	TS EN 324-1 EN 324-1
	Determination of modulus of elasticity in bending and of bending strength (Max 4 tons)	TS EN 310 EN 310
	Surface soundness - Test method (Max 4 tons)	TS EN 311 EN 311
	Determination of dimensions of test pieces	TS EN 325 EN 325
	Sampling, cutting and inspection- Part 1: Sampling test pieces and expression of test results	TS EN 326-1 EN 326-1
Particleboards and fibreboards	Determination of swelling in thickness after immersion in water	TS EN 317 EN 317
	Determination of tensile strength perpendicular to the plane of the board (Max 4 tons)	TS EN 319 EN 319
High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (usually called laminates)	Resistance to surface wear	TS EN 438-2 EN 438-2
	Resistance to abrasion (flooring grade laminates)	TS EN 438-2 EN 438-2
	Substrate protection againts water vapour	TS EN 438-2 EN 438-
	Resistance to water vapour	TS EN 438-2 EN 438-2

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (usually called laminates) Continued)	Resistance to dry heat	TS EN 438-2 EN 438-2
	Resistance to scratching	TS EN 438-2 EN 438-2
	Resistance to staining	TS EN 438-2 EN 438-2
	Resistance to cigarette burns	TS EN 438-2 EN 438-2
Furniture Surfaces	Determination of Abrasive Resistance	TS 4755
	Determination of Resistance to Glowing Cigarette	TS 4756
	Determination of Scratch Resistance	TS 4757
Aggregates- - Concrete Aggregates - Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction - Aggregates for railway ballast - Aggregates for mortar	Determination of particle size distribution sieving method	TS 3530 EN 933-1 EN 933-1 ISO 6274
	Fines Content	TS 3530 EN 933-1 EN 933-1 ISO 6274
	Determination of particle shape-Flakiness index	TS 9582 EN 933-3 EN 933-3
	Assessment of fines- Sand equivalent	TS EN 933-8 EN 933-8
	Assessment of fines - Methylene blue test	TS EN 933-9 EN 933-9
	Methods for the determination of resistance to fragmentation-Los Angeles	TS EN 1097-2 EN 1097-2
	Determination of particle density and water absorption	TS EN 1097-6 EN 1097-6
	Determination of loose bulk density and voids	TS EN 1097-3 EN 1097-3

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Aggregates- - Concrete Aggregates - Aggregates for bituminous mixtures and surface treatments for roads, airfields and other traficked areas - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction - Aggregates for railway ballast - Aggregates for mortar Continued)	Determination of drying shrinkage	TS EN 1367-4 EN 1367-4
Aggregates	Shape index	TS EN 933-4 EN 933-4
Aggregates- -Concrete Aggregates	Alkali Reactivity Mortar-Bar Method	TS 706 EN 12620+A1 EN 12620 CSA A23.2-25A ASTM C 1260
Aggregates- - Aggregates for mortar	Alkali Reactivity Mortar-Bar Method	TS 2717 EN 13139 EN 13139 CSA A23.2-25A ASTM C 1260
Aggregates- - Concrete Aggregates - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction - Aggregates for mortar	Compressive Strength of Mortar Test Specimens	TS EN 1744-1 EN 1744-1
	Stiffening Time of Mortar Test Specimens	TS EN 1744-1 EN 1744-1
Aggregates- - Concrete Aggregates - Aggregates for bituminous mixtures and surface treatments for roads, airfields and other traficked areas - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction - Aggregates for railway ballast - Aggregates for mortar	Tests for thermal and weathering properties of aggregates- Part 2: Magnesium sulfate test	TS EN 1367-2 EN 1367-2
Concrete kerb units	Thickness of facing layer	TS 436 EN 1340-EK C EN 1340

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Concrete paving blocks	Thickness of facing layer	TS 2824 EN 1338- EK C EN 1338
Concrete kerb units	Bending strength	TS 436 EN 1340- EK F EN 1340
	Abrasion according to the Böhme test	TS 436 EN 1340-EK H EN 1340
Concrete paving blocks	Abrasion according to the Böhme test	TS 2824 EN 1338- EK H EN 1338
Concrete kerb units	Slip/skid resistance	TS 436 EN 1340- EK I EN 1340
Concrete paving blocks	Slip/skid resistance	TS 2824 EN 1338- EK I EN 1338
Slabs of natural stone for external paving	Determination of the slip resistance	TS EN 1341- EK D EN 1341
Setts of natural stone for external paving	Determination of the slip resistance	TS 2809 EN 1342- EK C EN 1342
Natural stone products - Modular tiles - Slabs for floors and stairs	Determination of the slip resistance	EN 14231
Concrete paving blocks	Tensile splitting strength	TS 2824 EN 1338- EK F EN 1338
Slabs of natural stone for external paving	Shape and dimensions	TS EN 1341- EK A EN 1341
Kerbs of natural stone for external paving	Shape and dimensions	TS EN 1343- EK A EN 1343
Setts of natural stone for external paving	Shape and dimensions	TS 2809 EN 1342- EK A EN 1342
Natural stone products - Modular tiles - Slabs for floors and stairs	Shape and dimensions	TS EN 13373 EN 13373
Natural stone products -Kerbs of natural stone for external paving -Slabs of natural stone for external paving - Modular tiles -Slabs for floors and stairs	Determination of frost resistance	TS EN 12371 EN 12371
Natural stone products -Kerbs of natural stone for external paving -Slabs of natural stone for external paving - Modular tiles -Slabs for floors and stairs	Flexural strength	TS EN 12372 EN 12372

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Natural stone products -Kerbs of natural stone for external paving -Slabs of natural stone for external paving - Modular tiles -Slabs for floors and stairs	Water absorption at atmospheric pressure	TS EN 13755 EN 13755
Adhesives for tiles	Initial adhesion strength	TS EN 1348 EN 1348
	Tensile adhesion strength after water immersion	TS EN 1348 EN 1348
	Tensile adhesion strength after heat ageing	TS EN 1348 EN 1348
	Tension adhesion strength after freeze-thaw cycle	TS EN 1348 EN 1348
	Determination of open time : Tension adhesion strength	TS EN 1346 EN 1346

FOOD LABORATORY

Cereal and Nuts Products	Determination of Acidity in Extracted Oil	TS 2383
Cereal and Cereal Products	Determination of Moisture Content (Routine reference method)	TS 1135 ISO 712 ISO 712
	Total Ash Content	TS 1511 ISO 2171 ISO 2171
Honey	Determination of Saccharose	TS 3036
	Determination of invert sugar	TS 3036
	Determination of Acidity	TS 3036
	Determination of Hydroxymethylfurfural	TS 3036
	Determination of Water Insoluble Solid Content	TS 3036
Spices and Flavoured Herbs	Total Ash Content	TS 2131 ISO 928 ISO 928
Fruit and Vegetable Products	Determination of hydroxymethylfurfural (5-HMF)	TS 6178 ISO 7466 ISO 7466
Black Tea	Moisture Content	TS 1562 ISO 1573
	Total Ash Content	TS 1564 ISO 1575
	Determination of Water Soluble Ash	TS 1565 ISO 1576

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Black Tea Continued)	Determination of Alkalinity of Water Souble Ash	TS 1567 ISO 1578
	Determination of Water Extract	TS ISO 9768 ISO 9768

End of Scope

Atakan BAŞTÜRK
Secretary General