



Accreditation Scope

 	TSE DENEY LABORATUVARLARI MERKEZİ BAŞKANLIĞI Gebze Deney Laboratuvarları Accreditation Number: AB-0001-T Revision Number: 07 Date: 22 December 2010	
	Deney Laboratuvarı	
	Address: TSE Kalite Kampüsü, Cumhuriyet Mh. 2258 Sk. No: 10 Çayırrova Tren İstasyonu Yanı Gebze	Phone :0 262 653 07 51 Fax :0 262 653 08 06 E-Mail :ysm@tse.org.tr Website: www.tse.org.tr

Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
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MECHANICS LABORATORY

Metallic Materials	Rockwell Hardness Test 20 HRA-88 HRA 20 HRB-100 HRB 20 HRC-70 HRC 70 HR15N-94 HR15N 20 HR45N-77 HR45N 67 HR15T-93 HR15T 10 HR45T-72 HR45T	TS EN ISO 6508-1 EN ISO 6508-1 ISO 6508-1
	Vickers Hardness Test HV1 HV10 HV30	TS EN ISO 6507-1 EN ISO 6507-1 ISO 6507-1
	Tensile Test (Ambient Temperature) Max.1500 kN	TS 138 EN 10002-1 EN 10002-1
	Charpy Impact Test (V- Notch) 300 J	TS EN 10045-1 EN 10045-1

NONDESTRUCTIVE TEST LABORATORY



-Metal and non-metal materials -Welding Seams -Welding Joints of Pressure Equipments -Pipes -Casting -Forging -Railway applications - Products acc. to 97/23/AT, 87/404/EEC and 99/36/AT scopes -Nuclear Energy Plants	Visual Testing	TS EN 970 EN 970 TS EN ISO 17635 EN ISO 17635 ISO 17635 TS EN ISO 5817 EN ISO 5817 ISO 5817 TS EN 1370 EN 1370 TS EN 12454 EN 12454 TS EN 13018 EN 13018 TS EN 13981-1 EN 13981-1 TS EN 13674-1 EN 13674-1 KTA 3401.4 KTA 3401.3 KTA 3401.1
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
-Metal and non-metal materials -Welding Joints -Welding Seams -Welding Joints of Pressure Equipments -Pipes -Casting -Forging -Railway applications - Products acc. to 97/23/AT, 87/404/EEC and 99/36/AT scopes -Nuclear Energy Plants	Ultrasonic Testing	TS EN 1714 EN 1714 TS EN ISO 17635 EN ISO 17635 ISO 17635 TS EN 1712 EN 1712 TS EN 10228-3 EN 10228-3 TS EN 12680-1 EN 12680-1 TS EN 10160 EN 10160 TS EN ISO 5817 EN ISO 5817 ISO 5817 TS 9911 ISO 5948 ISO 5948 TS EN 13261 EN 13261 TS EN 13262 EN 13262 TS EN 13981-4 EN 13981-4 TS EN 13981-2 EN 13981-2 TS EN 13674-1 EN 13674-1 KTA 3401.4 KTA 3401.3 KTA 3401.1
-Metal and non-metal materials -Welding Joints -Welding Seams -Welding Joints of Pressure Equipments -Pipes -Casting -Forging -Railway applications - Products acc. to 97/23/AT, 87/404/EEC and 99/36/AT scopes -Nuclear Energy Plants	Radiographic Testing	TS 5127 EN 1435 EN 1435 TS EN ISO 17635 EN ISO 17635 ISO 17635 TS EN 12681 EN 12681 TS EN 444 EN 444 TS EN ISO 5817 EN ISO 5817 ISO 5817 TS EN 12517-1 EN 12517-1 TS EN 13981-3 EN 13981-3 KTA 3401.4 KTA 3401.3 KTA 3401.1 TS EN ISO 10042 EN ISO 10042 ISO 10042

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
<ul style="list-style-type: none"> -Ferromagnetic materials -Welding Seams -Welding Joints of Pressure Equipments -Pipes -Casting -Forging -Railway applications - Products acc. to 97/23/AT, 87/404/EEC and 99/36/AT scopes -Nuclear Energy Plants 	Magnetic Particle Testing	TS EN ISO 9934-1 EN ISO 9934-1 ISO 9934-1 TS EN ISO 17635 EN ISO 17635 ISO 17635 TS EN ISO 17638 EN ISO 17638 ISO 17638 TS EN ISO 23278 EN ISO 23278 ISO 23278 TS EN 1369 EN 1369 TS EN 10228-1 EN 10228-1 TS EN ISO 5817 EN ISO 5817 ISO 5817 TS EN 13261 EN 13261 TS ISO 6933 ISO 6933 TS EN 14200 EN 14200 KTA 3401.4 KTA 3401.3 KTA 3401.1
<ul style="list-style-type: none"> -Metal and non-metal materials -Welding Seams -Welding Joints of Pressure Equipments -Pipes -Casting -Forging -Railway applications - Products acc. to 97/23/AT, 87/404/EEC and 99/36/AT scopes -Nuclear Energy Plants 	Liquid Penetrant Testing	TS EN 571-1 EN 571-1 TS EN ISO 17635 EN ISO 17635 ISO 17635 TS EN 10228-2 EN 10228-2 TS EN 1371-1 EN 1371-1 TS EN 1371-2 EN 1371-2 TS EN ISO 23277 EN ISO 23277 ISO 23277 TS EN ISO 5817 EN ISO 5817 ISO 5817 TS EN 13981-4 EN 13981-4 KTA 3401.4 KTA 3401.3 KTA 3401.1

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 Test TS EN ISO/IEC 17025 AB-0001-T	TSE DENEY LABORATUVARLARI MERKEZİ BAŞKANLIĞI Gebze Deney Laboratuvarları Accreditation Number: AB-0001-T Revision Number: 07 Date: 22 December 2010
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
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ELECTROTECHNICAL LABORATORY



PVC Insulated Cables	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
	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
	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 9: Single core non-Sheathed cables for installation at low temperatures	TS HD 21.9 S2 HD 21.9 S2
	Polyvinyl chloride insulated cables of rated voltages up to including 450/750 V- Part 11: Cables for luminaries	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) <i>(Except Thermal Stability at 200 oC Test and Mechanical properties of completed cable Test)</i>	TS HD 21.12 S1 HD 21.12 S1

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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 and including 450/750 V - Part 13: Oil Resistant PVC sheathed cables with two or more conductors (<i>Except Measurement of the transfer impedance</i>)	TS HD 21.13 S1 HD 21.13 S1
	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 (<i>Except Thermal Stability at 200 oC Test</i>)	TS HD 21.7 S2 HD 21.7 S1
	Flat polyvinyl chloride sheathed flexible cables	TS EN 50214 EN 50214
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
	Cables of rated voltages up to and including 450/750 V and having cross-linked insulation -- Part 3: Heat resistant silicone rubber insulated cables (<i>Except Solderability test</i>)	TS 9764 HD 22.3 S4 HD 22.3 S4
	Cables of rated voltages up to and including 450/750 V and having cross-linked insulation -- Part 4: Cords and flexible cables (<i>Except Solderability test, ageing in oxygen bomb, Ozone Resistance test, Wear resistance test, Resistance to heat of textile braid</i>)	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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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(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. <i>(Except ageing in air bomb)</i>	TS HD 22.7 S2 HD 22.7 S2
	Circular rubber insulated lift cables for normal use <i>(Except Solderability test, ageing in oxygen bomb, OzoneResistance test)</i>	TS 9766 HD 360 S2 HD 360 S2
Household And Similar Electrical Appliances	Household and similar electrical appliances - Safety - Part 1: General requirements	TS 2000 EN 60335-1 EN 60335-1 IEC 60335-1
	Household and similar electrical appliances - Safety Part 2-3: Particular requirements for electric irons <i>(Except cordless irons)</i>	TS 2002 EN 60335-2- 3 EN 60335-2-3 IEC 60335-2-3
	Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for dishwashers	TS 11300 EN 60335-2-5 EN 60335-2-5 IEC 60335-2-5
	Household And Similar Electrical Appliances - Safety - Part 2-7: Particular Requirements For Washing Machines	TS 2004 EN 60335-2-7 EN 60335-2-7 IEC 60335-2-7
	Household and similar electrical appliances - Safety - Part 2.23: Particular requirements for appliances for skin or hair care <i>(Except sliding contact appliances)</i>	TS 374 EN 60335- 2- 23 EN 60335-2-23 IEC 60335-2-23
	Safety of Household and similar electrical appliances -Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers <i>(Except appliances including flammable gas)</i>	TS 2225 EN 60335-2-24 EN 60335-2-24 IEC 60335-2-24
	Household and similar electrical appliance- Safety -Path 2-80: Particular requirements for fans	TS 433 EN 60335-2-80 EN 60335-2-80 IEC 60335-2-80

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Household And Similar Electrical Appliances continued)	Household and similar electrical appliances - Safety - Part 2-9 : Particular requirements for grills, toasters and similar portable cooking appliances	TS 2005 EN 60335-2-9 EN 60335-2-9
	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines	TS EN 60335-2-14 EN 60335-2-14
	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
	Household and similar electrical appliances - Safety - Part 2-31 : Particular requirements for range hoods	TS EN 60335-2-31 EN 60335-2-31
Luminaires	Luminaires - Part 1: General requirements and tests (<i>Except Annex P, UV radiation</i>)	TS EN 60598-1 EN 60598-1 IEC 60598-1
	Luminaires-Part 2: Particular Requirements-Section 1: Fixed General Purpose Luminaires	TS 8698 EN 60598-2-1 EN 60598-2-1 IEC 60598-2-1
	Luminaires - Part 2: Particular requirements - Section 2: Recessed luminaire	TS 8699 EN 60598-2-2 EN 60598-2-2 IEC 60598-2-2
	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	TS 8700 EN 60598-2-3 EN 60598-2-3 IEC 60598-2-3
	Luminaires-Part 2:Particular requirements-Section 4:Portable General purpose Luminaires	TS 8701 EN 60598-2-4 EN 60598-2-4 IEC 60598-2-4
	Luminaires - Part 2-5: Particular requirements - Floodlights	TS 8702 EN 60598-2-5 EN 60598-2-5 IEC 60598-2-5
	Luminaires Part 2: Particular Requirements Section 6: Lumineires With Built-in Transformers For Flament Lamps	TS 8703 EN 60598-2-6 EN 60598-2-6 IEC 60598-2-6
	Luminaires-Part 2:Particular Requirements-Section 7: Specification for Partable Luminaires for Garden Use	TS 8704 EN 60598-2-7 EN 60598-2-7 IEC 60598-2-7

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Luminaires continued)	Luminaires Part 2:Particular requirements Section 8:Handlamps	TS 44 EN 60598-2-8 EN 60598-2-8 IEC 60598-2-8
	Luminaires-Part 2: Particular requirements- Section 9- Photo and film Luminaires (Non-Professional)	TS 8705 EN 60598-2-9 EN 60598-2-9 IEC 60598-2-9
	Luminaires - Part 2-10: Particular requirements - Portable luminaires for children	TS EN 60598-2-10 EN 60598-2-10 IEC 60598-2-10
	Luminaires Part 2: Particular requirements section 17: Luminaires for stage lighting, television and fotografic studios (outdoor and indoor)	TS 8706 EN 60598-2-17 EN 60598-2-17 IEC 60598-2-17
	Luminaires - Part 2:Particular requirements - Section 23: Extra low-voltage lighting systems for filament lamps	TS EN 60598-2-23 EN 60598-2-23 IEC 60598-2-23
Lamp controlgear	Lamp controlgear - Part 2-8: Particular requirements for ballasts for fluorescent lamps (<i>Except Annex-B, Particular requirements for Thermal protected lamp controlgear</i>)	TS EN 61347-2-8 EN 61347-2-8 IEC 61347-2-8
	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
	Lamp controlgear - Part 2-1: Particular requirements for starting devices (other than glow starters)	TS EN 61347-2-1 EN 61347-2-1
	Lamp controlgear Part: 2-3: Particular requirements for a.c. supplied electronic ballast for fluorescent lamps	TS EN 61347-2-3 EN 61347-2-3
Self-ballasted lamps	Self- Ballasted lamps for general lightning services- Performance requirements	TS EN 60969 EN 60696 IEC 60969
	Energy efficiency of electric lamps for household use- Measurement methods* (*Only self-ballasted lamps)	TS EN 50285 EN 50285 IEC 50285

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Self-ballasted lamps continued)	Self- Ballasted lamps for general lightning services- Safety requirements	TS EN 60968
Electricity meters	Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 11: Metering equipment (<i>Except Protection Against Solar Radiation, Shock Test, Test of Immunity to Electromagnetic RF Fields, Damped Oscillatory Waves Immunity Test</i>)	TS EN 62052-11 EN 62052-11 IEC 62052-11
	Particular requirements - Part 11: Electromechanical meters for active energy (classes 0.5, 1 and 2)	TS EN 62053-11 EN 62053-11 IEC 62053-11
	Electricity metering equipment (a.c.) - Particular requirements - Part 21: Static meters for active energy (classes 1 and 2) (<i>Except Limits of Error Due to Influence Quantities, Electromagnetic RF Fields, Damped Oscillatory Waves Immunity</i>)	TS EN 62053-21 EN 62053-21 IEC 62053-21
	Electricity metering equipment (a.c) - Particular requirements - Part 22: Static meters for active energy (Classes 0,2 S and 0,5 S) (<i>Except Limits of Error Due to Influence Quantities, Electromagnetic RF Fields, Damped Oscillatory Waves Immunity</i>)	TS EN 62053-22 EN 62053-22 IEC 62053-22
	Particular requirements - Part 23: Static meters for reactive energy (Classes 2 and 3) (<i>Except Limits of Error Due to Influence Quantities, Electromagnetic RF Fields, Damped Oscillatory Waves Immunity</i>)	TS EN 62053-23 EN 62053-23 IEC 62053-23
	Var-Hour (Reactive Energy) Meters	TS 786 IEC 60145 IEC 60145

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Electricity meters continued)	Electricity metering equipment (a.c.) - Part 1: General requirements, tests and test conditions - Metering equipment (class indexes A, B, and C) (Except Protection Against Solar Radiation, Shock Test, Test of Immunity to Electromagnetic RF Fields, Damped Oscillatory Waves Immunity Test)	TS EN 50470-1 EN 50470-1
	Electricity metering equipment (a.c.) - Part 2: Particular requirements - Electromechanical meters for active energy (class indexes A and B) (Except Limits of Error Due to Influence Quantities, Damped Oscillatory Waves Immunity)	TS EN 50470-2 EN 50470-2
	Electricity metering equipment (a.c.) - Part 3: Particular requirements - Static meters for active energy (class indexes A, B and C) (Except Limits of Error Due to Influence Quantities, Electromagnetic RF Fields, Damped Oscillatory Waves Immunity)	TS EN 50470-3 EN 50470-3
Electromagnetic compatibility Residential, Commercial And Light-Industrial Environments	Mains Terminal Disturbance Voltage (Frequency range 150kHz-30MHz)	TS EN 61000-6-3 EN 61000-6-3 IEC 61000-6-3
	Disturbance Emission <i>(The limit values which we can perform for this test are frequency range of 30MHz - 1GHz. Remark: Antenna distance is 3 m)</i>	TS EN 61000-6-3 EN 61000-6-3 IEC 61000-6-3
	Electrostatic Discharge Immunity Test (Air Discharge: 2 - 16.6kV, Contact Discharge :1 - 8kV)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1

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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 continued)	Radiated, Radio- Frequency, Electromagnetic Field Immunity Test <i>(Remark: The limit values which we can perform for this test are frequency range of 80MHz - 1GHz and electric field severity of 1-3-10V/m)</i>	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
	Electrical Fast Transient/Burst Immunity Test (On Power Ports: 0.5 - 4kV, 2.5kHz - 5kHz On I/O Signal, Data and Control Ports: 0.25-2kV, 5kHz)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
	Surge Immunity Test (Voltage range 0.5kV - 4kV Open-Circuit Voltage Rising : 1.2/50µs, Short-Circuit Current Rising : 8/20µs)	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-80MHz at levels 1, 3, 10 V)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
	Power Frequency Magnetic Field Immunity Test (at levels 1, 3, 10, 30, 100 A/m)	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1
	Electromagnetic Compatibility-Industrial Environments	Mains Terminal Disturbance Voltage (Frequency range 150kHz-30MHz)
Disturbance Emission <i>(The limit values which we can perform for this test are frequency range of 30MHz - 1GHz. Remark: Antenna distance is 3 m.)</i>		TS EN 61000-6-4 EN 61000-6-4 IEC 61000-6-4
Electrostatic Discharge Immunity Test (Air Discharge: 2 - 16.6kV, Contact Discharge : 1 - 8kV)		TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Electromagnetic Compatibility- Industrial Environments continued)	Radiated, Radio- Frequency, Electromagnetic Field Immunity Test <i>(Remark: The limit values which we can perform for this test are frequency range of 80MHz - 1GHz and electric field severity of 1-3-10V/m)</i>	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
	Electrical Fast Transient/Burst Immunity Test (On Power Ports: 0.5 - 4kV, 2.5kHz - 5kHz On I/O Signal, Data and Control Ports: 0.25-2kV, 5kHz)	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
	Surge Immunity Test (Voltage range 0.5kV - 4kV Open-Circuit Voltage Rising : 1.2/50µs, Short-Circuit Current Rising : 8/20µs)	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 1, 3, 10 V)	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
	Power Frequency Magnetic Field Immunity Test (at levels 1, 3, 10, 30, 100 A/m)	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 (Frequency range 150kHz-30MHz)
Mains Terminal Disturbance Power (Frequency range 30MHz - 300MHz)		TS EN 55014-1 EN 55014-1 CISPR 14-1
Discontinuous Interference (150kHz, 500kHz, 1,4MHz, 30MHz)		TS EN 55014-1 EN 55014-1 CISPR 14-1
Disturbance Emission <i>(Remark: The limit values which we can perform for this test are frequency range of 30MHz - 1GHz Antenna distance is 3 m.)</i>		TS EN 55014-1 EN 55014-1 CISPR 14-1

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(Electromagnetic Compatibility - Household Appliances, Electric Tools And Similar Apparatus continued)	Electrostatic Discharge Immunity Test (Air Discharge: 2 - 16.6 kV, Contact Discharge: 1-8 kV)	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Radiated, Radio- Frequency, Electromagnetic Field Immunity Test <i>(Remark: The limit values which we can perform for this test are frequency range of 80MHz - 1GHz and electric field severity of 1-3-10V/m)</i>	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Electrical Fast Transient/Burst Immunity Test (On Power Ports: 0.5-4kV, 2.5kHz -5kHz On I/O Signal, Data and Control Ports: 0.25-2 kV, 5 kHz)	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Surge Immunity Test (Voltage Range 0.5 - 4kV; Open-Circuit Voltage Rising: 1.2/50 µs, Short-Circuit Current Rising: 8/20 µs)	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 1, 3, 10 V)	TS EN 55014-2 EN 55014-2 CISPR 14-2
	Voltage Dips, Short Interruptions And Voltage Variations Immunity Tests (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 (Frequency range 150kHz-30MHz)
Disturbance Emission (The limit values which we can perform for this test are frequency range of 30MHz - 1GHz Remark:Antenna distance is 3 m.)		TS EN 55022 EN 55022 CISPR 22

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(Electromagnetic Compatibility - Information Technology Equipments continued)	Electrostatic Discharge Immunity Test (Air Discharge: 2 - 16.6kV, Contact Discharge :1 - 8kV)	TS EN 55024 EN 55024 CISPR 24
	Radiated, Radio- Frequency, Electromagnetic Field Immunity Test <i>(Remark: The limit values which we can perform for this test are frequency range of 80MHz - 1GHz and electric field severity of 1-3-10V/m)</i>	TS EN 55024 EN 55024 CISPR 24
	Electrical Fast Transient/Burst Immunity Test (On Power Ports: 0.5-4kV, 2.5kHz -5kHz On I/O Signal,Data and Control Ports: 0.25-2kV, 5kHz)	TS EN 55024 EN 55024 CISPR 24
	Surge Immunity Test (Voltage Range 0.5 - 4kV; Open-Circuit Voltage Rising: 1.2/50 µs, Short-Circuit Current Rising: 8/20 µs)	TS EN 55024 EN 55024 CISPR 24
	Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields (Frequency Range 150kHz - 230MHz at levels 1, 3, 10 V)	TS EN 55024 EN 55024 CISPR 24
	Power Frequency Magnetic Field Immunity Test (at levels 1, 3, 10, 30, 100 A/m)	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 - 9999 ms)	TS EN 55024 EN 55024 CISPR 24
	Electromagnetic Compatibility - Industrial, Scientific And Medical (I S M) Radio-Frequency Equipment	Mains Terminal Disturbance Voltage (150kHz - 30MHz Frequency Range)

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Electromagnetic Compatibility - Industrial, Scientific And Medical (ISM) Radio-Frequency Equipment continued)	Disturbance Emission (The limit values which we can perform for this test are frequency range of 30 MHz - 1 GHz Remark:Antenna distance is 3 m.)	TS EN 55011 EN 55011 CISPR 11
Electromagnetic Compatibility - Sound And Television Broadcast Receivers And Associated Equipment	Mains Terminal Disturbance Voltage (150kHz - 30MHz)	TS EN 55013 EN 55013 CISPR 13
	Antenna Mains Terminal Disturbance Voltage (30MHz-1GHz)	TS EN 55013 EN 55013 CISPR 13
	Disturbance Emission (The limit values which we can perform for this test are frequency range of 30MHz - 1GHz. Remark:Antenna distance is 3 m.)	TS EN 55013 EN 55013 CISPR 13
Electromagnetic Compatibility - Electrical Ligthing And Similar Equipment	Mains Terminal Disturbance Voltage (9kHz - 30MHz)	TS EN 55015 EN 55015 CISPR 15
	Magnetic Field Disturbance Emission (9kHz - 30MHz)	TS EN 55015 EN 55015 CISPR 15
Electromagnetic Compatibility - Equipment With Rated Current Current up to 16 A 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 Electronic Equipment Subjected To Static Electricity Discharges, From Operators Directly, And To Adjacent Objects	Electrostatic Discharge Immunity Test (Air Discharge: 2 - 16.6kV, Contact Discharge :1 - 8kV)	TS EN 61000-4-2 EN 61000-4-2 IEC 61000-4-2
Electromagnetic Compatibility - Electrical And Electronic Equipment Subjected To Radio - Frequency, Electromagnetic Field	Radiated, Radio- Frequency, Electromagnetic Field Immunity Test (Remark:The limit values which we can perform for this test are frequency range of 80MHz - 1GHz and electric field severity of 1-3-10V/m)	TS EN 61000-4-3 EN 61000-4-3 IEC 61000-4-3

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electromagnetic Compatibility - Electrical And Electronic Equipment Subjected To Electrical Fast Transient/Burst	Electrical Fast Transient/Burst Immunity Test (On Power Ports:0.5-4kV, 2.5kHz -5kHz On I/O Signal, Data and Control Ports: 0.25-2kV, 5kHz)	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 voltages from switching and lightning transients	Surge Immunity Test (Voltage Range 0.5 - 4kV Open-Circuit Voltage Rising: 1.2/50µs, Short-Circuit Current Rising: 8/20µs)	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 1, 3, 10 V)	TS EN 61000-4-6 EN 61000-4-6 IEC 61000-4-6
Electromagnetic Compatibility - Electrical And Electronic Equipment Subjected To Power Frequency Magnetic Field (permanent and transient)	Power Frequency Magnetic Field Immunity Test (at levels 1, 3, 10, 30, 100 A/m)	TS EN 61000-4-8 EN 61000-4-8 IEC 61000-4-8
Electromagnetic Compatibility - Electrical And Electronic Equipment Subjected To Pulse Magnetic Disturbances	Pulse Magnetic Field Immunity Test (at levels 100 - 300 - 1000 A/m , 6.4/16µs ± %30)	TS EN 61000-4-9 EN 61000-4-9 IEC 61000-4-9
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 - Sound And Television Broadcast Receivers And Associated Equipment	Screening Effectiveness (S4) (0-1GHz)	TS EN 55020

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electrical and electronic equipment or other articles for use and storage under conditions of high humidity when combined with cyclic temperature changes and, in general, producing condensation on the surface of the specimen	Damp Heat, Cyclic (12+12-hour cycle) (Db) (Temp.: +10 oC ~ +90 oC, Hum.: 10% - 98% rH, Load: 150kg max, 30 kg/shelf)	TS EN 60068-2-30 EN 60068-2-30 IEC 60068-2-30
Electrical and electronic equipment or other articles for use and storage under conditions of high relative humidity	Damp Heat, Steady State (Ca) (Temp.: +10 oC ~ +90 oC, Hum.: 10% - 98% rH, Load: 150kg max, 30 kg/shelf)	TS EN 60068-2-78 EN 60068-2-78 IEC 60068-2-78
Electrical and electronic equipment or other articles to withstand under sinusoidal vibration	Vibration, Sinusoidal (Fc) (Freq. Range: 2-1000Hz, Max. Acc.: 14,5g (with Table), 87g (without Table). Max. Disp.: 18mm-pp. Load: 200kg max)	TS EN 60068-2-6 EN 60068-2-6 IEC 60068-2-6
Electrical and electronic equipment or other articles for use and storage under conditions of low temperature	Cold (Ab) (Temp.: up to -50 oC, Load: 200kg max.)	TS EN 60068-2-1 EN 60068-2-1 IEC 60068-2-1
Electrical and electronic equipment or other articles for use and storage under conditions of high temperature	Dry Heat; Test (Bb) (Temp.: 5 oC ~ 220 oC, Load: 30 kg/shelf, 100kg max.)	TS EN 60068-2-2 EN 60068-2-2 IEC 60068-2-2

CHEMISTRY LABORATORY



Ceramic tiles	Determination of dimensions and surface quality	TS EN ISO 10545-2 EN ISO 10545-2 ISO 10545-2
	Determination of water absorption apparent porosity, apparent relative density and bulk density	TS EN ISO 10545-3 EN ISO 10545-3 ISO 10545-3
	Determination of modulus of rupture and breaking strength (Tile dimension : ≥95mm Stick diameter (d): 20mm Rubber thickness (t): 5±1 mm Overspill of tile from edge basis (/): 10 mm)	TS EN ISO 10545-4 EN ISO 10545-4 ISO 10545-4
	Determination of crazing resistance for glazed tiles	TS EN ISO 10545-11 EN ISO 10545-11 ISO 10545-11

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Liquid chemical products for industrial use	Determination of density at 20 °C	TS 781 ISO 758 ISO 758
Petroleum and non-petroleum product mixtures which has Reid vapour pressure under 100kPa under normal conditions	Laboratory determination of density or relative density-Hydrometer method	TS 1013 EN ISO 3675 EN ISO 3675 ISO 3675
Burning liquids, liquids which contain suspended solid materials, lubricants, liquids which are tended to make tension film under experimental conditions, liquids like these	Pensky-Martens closed cup method	TS EN ISO 2719 EN ISO 2719 ISO 2719
Petroleum products	Determination of distillation characteristics at atmospheric pressure (with automatic device)	TS 1232 EN ISO 3405 EN ISO 3405 ISO 3405
Petroleum Products	Determination of density - Oscillating U- tube method	TS EN ISO 12185 EN ISO 12185 ISO 12185
Unleaded gasoline Diesel	Determination of total sulfur content of automotive fuels	TS EN ISO 20846 EN ISO 20846 ISO 20846
Unleaded gasoline Diesel Lubricants	Corrosiveness to copper strip test	TS 2741 EN ISO 2160 EN ISO 2160 ISO 2160
	Determination of kinematic viscosity	TS 1451 EN ISO 3104 EN ISO 3104 ISO 3104
Diesel	Determination of cold filter plugging point	TS EN 116 TS EN 116 A/C EN 116 EN 116 A/C
	Calculation of cetane index of middle- distillate fuels by the four-variable equation	TS EN ISO 4264 EN ISO 4264 ISO 4264
Diesel Lubricants	Petroleum products - Determination of ash	TS EN ISO 6245 EN ISO 6245 ISO 6245
	Determination of the oxidation stability	TS EN ISO 12205 EN ISO 12205 ISO 12205

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Unleaded gasoline	Gum content of light and middle distillate fuels	TS EN ISO 6246 EN ISO 6246 ISO 6246
	Determination of air saturated vapour pressure (ASVP)	TS EN 13016-1 EN 13016-1
	Determination of low lead concentration	TS EN 237 EN 237
Vulcanized Rubber Materials	Rubber, vulcanized; determination of density (Method A)	TS 2827 ISO 2781 ISO 2781
Thermoplastic materials	Plastics - Determination of the melt mass - Flow rate (MFR) and the melt volume - Flow rate (MVR) of thermoplastics (Method A)	TS EN ISO 1133 EN ISO 1133 ISO 1133
Thermoplastic pipes	Thermoplastics pipes - Longitudinal reversion - Test method and parameters (Method B)	TS EN ISO 2505 EN ISO 2505 ISO 2505
Thermal insulating products for building applications	Determination of length and width	TS EN 822 EN 822
	Determination of thickness	TS EN 823 EN 823
	Determination of squareness	TS EN 824 EN 824
	Determination of compression behaviour	TS EN 826 EN 826
	Determination of apparent density	TS EN 1602 EN 1602
	Determination of long term water absorption by immersion	TS EN 12087 EN 12087
Thermal Performance of building materials and products	Determination of thermal resistance by means of guarded hot plate and heat flow meter methods-Products of high and medium thermal resistance	TS EN 12667 EN 12667
Paints - Organic solvent based - Top coat	Determination of non-volatile-matter content	TS EN ISO 3251 EN ISO 3251

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Paints - Organic solvent based - Top coat continued)	Drying, Curing Or Film Formation Of Organic Coatings At Room Temperature	TS 4317 Clause 1.2.2, Clause 1.2.3.2, Clause 1.2.6
	Dilution Stability	TS 4323
	Determination of resistance to liquids - Part 1: Immersion in liquids other than water (Method 3)	TS EN ISO 2812-1 EN ISO 2812-1
Paints and varnishes - Water based coating materials and coating systems for use in interior walls and ceilings	Determination of fineness of grind	TS 2620 EN ISO 1524 EN ISO 1524
	Determination of specular gloss of non-metallic paint films at 20, 60 and 85	TS 4318 EN ISO 2813 EN ISO 2813
Sodium Hypochlorite Solution	Analysis Of Hydroxide and Carbonate	TS 3464 Clause 1.3
Cleaning Agents-Used for Hand Cleansers	Determination of corrosion	TS 11885 Clause 2.3.6
Gas lighters	Volumetric displacement	TS EN ISO 9994 Clause 5.7 EN ISO 9994 Clause 5.7

CONSTRUCTION MATERIALS LABORATORY

Wood-Based Panels	Determination Of Moisture Content	TS EN 322 EN 322
	Determination Of Density	TS EN 323 EN 323
	Determination of Modulus of Elasticity In Bending And of Bending Strength (Max. 5000 N)	TS EN 310 EN 310
	Particleboards - Surface Soundness of Particleboards - Test Method (Max. 5000 N)	TS EN 311 EN 311
	Determination of Dimensions of Boards - Part 1: Determination of Thickness, Width And Length	TS EN 324-1 EN 324-1
Particleboards And Fibreboards	Determination of Swelling In Thickness After Immersion In Water	TS EN 317 EN 317

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Particleboards And Fibreboards continued)	Determination of Tensile Strength Perpendicular to The Plane of The Board (Max. 5000 N)	TS EN 319 EN 319
Natural Stones	Determination of water absorption at atmospheric pressure	TS EN 13755 EN 13755
	Determination of flexural strength under concentrated load	TS EN 12372 EN 12372
	Determination of water absorption coefficient by capillarity	TS EN 1925 EN 1925
	Determination of uniaxial compressive strength	TS EN 1926 EN 1926

End of Scope

Atakan BAŞTÜRK
Secretary General