



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory,

STANDART LABORATUVARLAR İŞLETMECİLİĞİ A.Ş.

Alalar Mah. Işılav Sok. No: 33 Yarımca-Körfez 41740 KOCAELİ /
TURKEY

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by **TURKAK**.

Accreditation Number : AB-0011-T

Accreditation Date : 30 November 2004

Revision Date / Number : 11 October 2021 / 021

This certificate shall remain in force until **10 July 2025**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.



Banıtül
G. Banu MÜDERRİSOĞLU
Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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Accreditation Scope


 <p>Test TS EN ISO/IEC 17025 AB-0011-T</p>	<p>STANDART LABORATUVARLAR İŞLETMECİLİĞİ A.Ş.</p> <p>Accreditation Nr: AB-0011-T Revision Nr: 021 Date: 11.10.2021</p>	
	<p>As a Testing Laboratory</p> <p>Address: Atalar Mah. Işılay Sok. No: 33 Yarımca-Körfez 41740 KOCAELİ/TÜRKİYE</p> <p>Phone : 0262 528 10 94 Fax : 0262 528 10 95 E-Mail : info@standardlab.org Website : www.standardlab.org</p>	

Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Hard Coal, Coke	Sample Preparation of Coal and Coke	ISO 18283
Coal	Sample Preparation of Coal	ASTM D 2013/ D 2013M
Coke	Sample Preparation Method for General Analysis	ASTM D 346
Coke	Determination of Total Moisture in Coke	TS ISO 579
Hard Coal	Determination of Total Moisture Content	ISO 589-Method A2
Hard Coal	Determination of Total Moisture in Coal	ISO 589 -Method B2
Coal, Coke	Determination of Moisture	ASTM D 3173 / D 3173M
Coal, Coke	Determination of Ash	TS ISO 1171
Coal, Coke	Determination of Ash	ASTM D 3174
Hard Coal, Coke	Determination of Volatile Matter	TS 711 ISO 562
Coal, Coke	Determination of Volatile Matter	ASTM D 3175
Coal, Coke	Determination of Gross Calorific Value and Calculation of Net Calorific Value Bomb Calorimetric Method	TS ISO 1928
Coal, Coke	Determination of Gross Calorific Value Bomb Calorimetric Method	ASTM D 5865
Coal, Coke	Determination of Sulfur (S) High Temperature Tube Furnace Combustion Method	ASTM D 4239

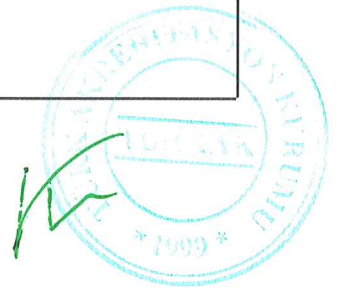


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Coal, Coke	Calculation of Fixed Carbon with Moisture, Volatile Matter and Ash Determination Thermogravimetric Method	ASTM D 7582
Coal, Coke	Calculation of Fixed Carbon with Moisture, Volatile Matter and Ash Determination Thermogravimetric Method	ASTM D 3172
Coal	Determination of Carbon, Hydrogen and Nitrogen in Analysis Samples of Coal Instrumental Method	ASTM D 5373
Coal, Coke	Determination of Major and Minor Elements in Ash XRF Spectrometer Method	ASTM D 4326
Brown Coals, Lignites	Determination of True Relative Density Pycnometer Method	TS ISO 5072
Coal, Coke	Determination of Ash Fusibility	ASTM D 1857/ D1857M
Coal	Determination of Free-Swelling Index	ASTM D 720 /D720M
Hard Coal	Determination of Hardgrove Grindability Index Hardgrove (HGI) Method	ISO 5074
Coal	Determination of Hardgrove Grindability Index Hardgrove (HGI) Method	ASTM D 409/D409 M
Coke	Hardgrove (HGI) Method for Grindability Index Determination	ASTM D 5003
Hard Coal	Determination of Particle Size Distribution Screening Method	TS ISO 1953

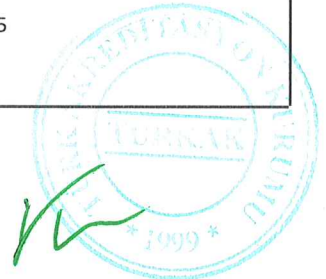


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Coal Briquettes	Determination of Drop Strength	TS 12055
Coal Briquettes	Determination of Abrasion Strength	TS 12055
Coal Briquettes	Determination of Breaking Strength	TS 12055
Coal Briquettes	Determination of Water Resistance	TS 12055
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Determination of Moisture Gravimetric Method	TS EN ISO 665
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Determination of Ash	ASTM E 1755 - 01
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Determination of Volatile Matter Gravimetric Method	TS EN ISO 22167
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Determination of Net Calorific Value Bomb Calorimetric Method	TS EN 15400
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Determination of Sulfur (S) Pretreatment: Bomb Calorimetric Method Analysis: Ion Chromatography Method	TS EN ISO 16994 TS EN ISO 10304-1
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Determination of Sodium (Na) Pretreatment: Extraction Method with Microwave Analysis: ICP-OES Method	EPA 3051 TS EN ISO 11885



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Determination of Oil Gravimetric Method	TS EN ISO 734
Olive Kernel - Prina and Other Biomass Briquette or Solid Fuels	Size Determination Screening Method	TS EN 15415 -1
Self-Igniting Solid Fuels	Combustion Test Analysis: Burning Method	EPA 1050
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Sample Preparation Method for General Analysis	TS EN ISO 14780
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Moisture Content in the Analysis Sample Drying Method in the Oven	TS EN ISO 18134-3



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Ash Content	TS EN ISO 18122
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Volatile Matter Content	TS EN ISO 18123
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Gross Calorific Value and Calculation of Net Calorific Value Bomb Calorimetric Method	TS EN ISO 18125

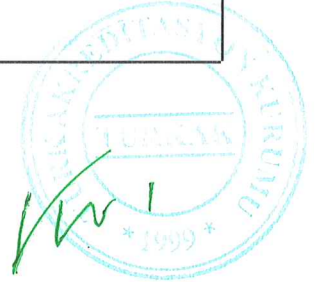


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Sulfur (S) Pre-treatment: Bomb Calorimeter Method Analysis: Ion Chromatography Method	TS EN ISO 16994 TS EN ISO 10304-1
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Chlorine (Cl) Pre-treatment: Bomb Calorimeter Method Analysis: Ion Chromatography Method	TS EN ISO 16994 TS EN ISO 10304-1
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Total Carbon, Hydrogen and Nitrogen Content	TS EN ISO 16948



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of trace elements Arsenic (As), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Nickel (Ni), Zinc (Zn) Pre-Treatment: Microwave Extraction Method Analysis: ICP-OES Method	TS EN ISO 16968
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Bulk Density	TS EN ISO 17828
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Ash Melting	CEN/TS 15370-1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Size Determination	TS EN ISO 17829
Biofuels Wood Pellets, Woody Biomass, Herbaceous Biomass, Fruit Biomass, Aquatic Biomass, Blends and Mixtures, Biomass from Trees, Bushes	Determination of Fine Particle Content	TS EN ISO 18846
Mineral Oil	Determination of Combustion Heat Calorimeter Method	ASTM D240 TS 1740
Mineral Oil	Determination of Sulfur (S) Energy Separated X-Ray Fluorescence Spectrometry Method	TS EN ISO 8754
Mineral Oil	Density and Relative Density Determination Oscillating U-Tube Method	ASTM D4052
Mineral Oil	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS EN ISO 3104
Fuel Oil	Determination of Combustion Heat Calorimeter Method	ASTM D240 TS 1740

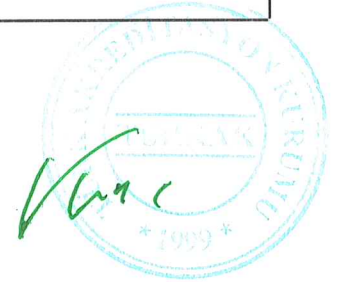


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Fuel Oil	Determination of Sulfur (S) Energy Separated X-Ray Fluorescence Spectrometry Method	TS EN ISO 8754
Fuel Oil	Density and Relative Density Determination Oscillating U-Tube Method	ASTM D4052
Fuel Oil	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS EN ISO 3104
Fuel Oil	Flash Point Determination Pensky-Martens Closed Cup Method	ASTM D93
Diesel	Determination of Combustion Heat Calorimeter Method	ASTM D240 TS 1740
Diesel	Density and Relative Density Determination Oscillating U-Tube Method	ASTM D4052
Diesel	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS EN ISO 3104
Diesel	Flash Point Determination Pensky-Martens Closed Cup Method	ASTM D93
Diesel, Base Oils, Mineral oils, Transformer Isolation Oils	Determination of ASTM Color	ASTM D1500
Gasoline	Density and Relative Density Determination Oscillating U-Tube Method	ASTM D4052
Biodiesel	Density and Relative Density Determination Oscillating U-Tube Method	ASTM D4052
Biodiesel	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS EN ISO 3104



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Biodiesel	Determination of Water Amount Coulometric Karl Fischer Titration Method	TS 6147 EN ISO 12937
Biodiesel	Flash Point Determination Pensky-Martens Closed Cup Method	ASTM D93
Pyrolytic Liquid Fuel	Determination of Heat of Combustion Calorimetry Method	ASTM D240 TS 1740
Pyrolytic Liquid Fuel	Hydrogen (H) Determining the amount of Instrumental Analysis	Inhouse Method (DT-SY03 Rev. No:01) (Modified ASTM D5373 standard)
Pyrolytic Liquid Fuel	Determination of Sulfur (S) Amount Energy Separated X-Ray Fluorescence Spectrometry Method	TS EN ISO 8754
Self-Igniting Liquid Fuels	Combustion Test Analysis: Burning Method	EPA 1050
Cement and Similar Building Materials	Sampling and Sample Preparation	TS EN 196-7
Cement and Similar Building Materials	Determination of Loss on Ignition	TS EN 196-2
Cement and Similar Building Materials	Determination of Fineness Using Air Jet Screening Method (90 µm, 45 µm, 32 µm)	TS EN 196-6
Cement and Similar Building Materials	Determination of Compressive Strength	TS EN 196-1
Cement and Similar Building Materials	Determination of Standard Consistency	TS EN 196-3
Cement and Similar Building Materials	Determination of Initial Setting Time	TS EN 196-3
Cement and Similar Building Materials	Determination of Final Setting Time	TS EN 196-3



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Cement and Similar Building Materials	Determination of Soundness	TS EN 196-3
Cement and Similar Building Materials	Determination of Specific Surface With Automatic Blaine Device	TS EN 196-6
Cement and Similar Building Materials	Determination of Whiteness With Spectral Color Measurement Device	Inhouse Method (DT-Ç22 Rev No:02)
Cement and Similar Building Materials	Determination of Water Retention	TS EN 413-2
Cement and Similar Building Materials	Determination of Air Content	TS EN 413-2
Cement and Similar Building Materials	Determination of Chemical Analysis (CaO, MgO, SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ , Cl ⁻ , SO ₃ ²⁻) XRF Method	TS EN 196-2
Cement and Similar Building Materials	Determination of Insoluble Residue with Hydrochloric Acid and Sodium Carbonate (Na ₂ CO ₃)	TS EN 196-2
Cement and Similar Building Materials	Determination of Chloride Titrimetric Method	TS EN 196-2
Cement and Similar Building Materials	Determination of Sulfate (SO ₃)	TS EN 196-2
Cement and Similar Building Materials	Determination of Pozzolanicity	TS EN 196-5
Cement and Similar Building Materials	Determination of Water Soluble Chromium (VI) in Cement	TS EN 196-10
Cement and Similar Building Materials	Determination of Alkaline Calculation with Determination of Na ₂ O and K ₂ O XRF Method	Inhouse Method (DT-Ç21 Rev No:02)
Cement and Similar Building Materials	Determination of Free Lime	Inhouse Method (DT-Ç08 Rev No:02)



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Cement and Similar Building Materials	Chemical Additives Grinding Facilitator, Freezing Retarder, Cr ⁶⁺ Reducer Infrared Analysis	Inhouse Method (DT-Ç48 Rev No:02) (TS EN 480-6/2012)
Cement and Similar Building Materials	Determination of Hydration Heat Solution Method	TS EN 196-8
Cement and Similar Building Materials	Determination of Fineness (0.045 mm Sieve Residue)	ASTM C 430
Cement and Similar Building Materials	Determination of Expansion Autoclave Method	ASTM C 151/C151M
Cement and Similar Building Materials	Determination of Compressive Strength	ASTM C 109-C109M
Cement and Similar Building Materials	Time of Setting of Hydraulic Cement by Vicat Needle	ASTM C 191
Cement and Similar Building Materials	Determination of Air Content of Hydraulic Cement Mortar	ASTM C 185
Cement and Similar Building Materials	Determination of Chemical Analysis (CaO, MgO, SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ , Cl ⁻ , SO ₃ ²⁻) XRF Method	ASTM C 114
Cement and Similar Building Materials	Determination of Insoluble Residue with Hydrochloric Acid and Sodium Carbonate (Na ₂ CO ₃)	ASTM C 114
Cement and Similar Building Materials	Determination of Loss on Ignition	ASTM C 114
Cement and Similar Building Materials	Determination of Sulfate (SO ₃)	ASTM C 114
Cement and Similar Building Materials	Determination of Free Lime	ASTM C 114



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Cement and Similar Building Materials	Determination of Total Alkali (Na ₂ O and K ₂ O)	Inhouse Method (DT-Ç41 Rev No: 01)
Cement and Similar Building Materials	Determination of Moisture	ASTM C 311/C311M
Cement and Similar Building Materials	Determination of Density	ASTM C 188
Building Materials	Transportable Moisture Limit (TML) Determination	Inhouse Method (DT-Ç50 Rev No: 00)
Natural Pozzolan (Trass) (Used in Cement and Concrete)	Pozzolanic Activity Determination (7 Days)	TS 25
Natural Pozzolan (Trass) (Used in Cement and Concrete)	Pozzolanic Activity Determination (28 and 90 Days)	TS 25
Hardened Concrete (Cube)	Determination of Compressive Strength of Test Samples	TS EN 12390-3
Fly Ash	Determination of Activity Index	TS EN 450-1 TS EN 196-1
Fly Ash or Natural Pozzolan	Determination of Chemical Analysis (CaO, MgO, SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ , Cl ⁻ , SO ₃ ²⁻) XRF Method	ASTM C 311/C311M
Fly Ash or Natural Pozzolan	Determination of Loss on Ignition	ASTM C 311/C311M
Fly Ash or Natural Pozzolan	Determination of Sulfate	ASTM C 114
Fly Ash or Natural Pozzolan	Determination of Free Lime	ASTM C 114
Fly Ash or Natural Pozzolan	Determination of Total Alkali (Na ₂ O and K ₂ O)	Inhouse Method (DT-Ç41 Rev No: 01)
Fly Ash or Natural Pozzolan	Determination of Moisture	ASTM C 311/C311M



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Fly Ash or Natural Pozzolan	Determination of Density	ASTM C 311/C311M ASTM C 188
Fly Ash or Natural Pozzolan	Determination of Water Requirement	ASTM C 311/C311M
Fly Ash or Natural Pozzolan	Determination of Fineness (Wet Sieving) (0.045 m Sieve Balance)	ASTM C 311/C311M ASTM C 430
Fly Ash or Natural Pozzolan	Determination of Expansion Autoclave Method	ASTM C 151/C151 M
Fly Ash or Natural Pozzolan	Determination of Air Amount of Mortar	ASTM C 311/C311 M ASTM C 185
Fly Ash or Natural Pozzolan	Determination of Compressive Strength	ASTM C 311/C311 M ASTM C 109/C109 M
Fly Ash or Natural Pozzolan	Determination of Strength Activity Index (7 and 28 Days) with Portland Cement	ASTM C 311/C311M ASTM C 109/C109 M
Aggregates	Water Soluble Chloride Content, Determination of Water Soluble Chloride Salts Using Volhard Method Reference Method	TS EN 1744-1
Aggregates	Acid Soluble Sulfate Content	TS EN 1744-1
Aggregates	Determination of Lightweight Contaminators in Concrete Aggregates	TS EN 1744-1
Aggregates	Determination of Organic Matter (Determination of Potential Presence of Humus)	TS EN 1744-1

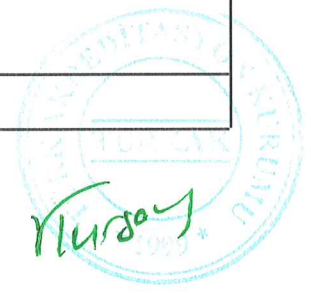


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Aggregates	Determination of Fulvo Acid Content	TS EN 1744-1
Aggregates	Determination of Total Sulfur	TS EN 1744-1
Ground Granulated Blast Furnace Slag	Determination of Fineness Using Air Jet Screening Method (90µm, 45µm, 32µm)	TS EN 196 -6
Ground Granulated Blast Furnace Slag	Determination of Specific Surface With Automatic Blaine Device	TS EN 196-6
Ground Granulated Blast Furnace Slag	Determination of Initial Setting Time	TS EN 196 -3
Ground Granulated Blast Furnace Slag	Determination of Final Setting Time	TS EN 196-3
Ground Granulated Blast Furnace Slag	Determination of Strength Ratio (Activity Index) (7 days and 28 days)	TS EN 196-1 (Sample preparation TS EN 15167-1)
Ground Granulated Blast Furnace Slag	Determination of Loss on Ignition	TS EN 196-2
Ground Granulated Blast Furnace Slag	Determination of Chemical Analysis (Cl ⁻ , SO ₃ ²⁻ , MgO, S ²⁻) XRF Method	Inhouse Method (DT-Ç32 Rev. No.:01)
Ground Granulated Blast Furnace Slag	Determination of Moisture (Annex - A)	TS EN 15167-1
Iron Furnace Slag	Determination of Apparent Density	TS EN ISO 11127-3
Iron Furnace Slag	Determination of Moisture Gravimetric Method	TS EN ISO 11127-5
Iron Furnace Slag	Determination of Conductivity	TS EN ISO 11127-6

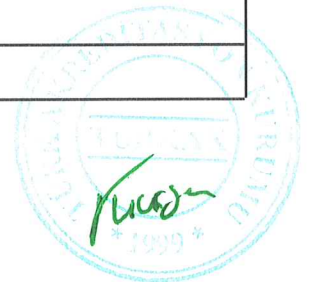


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Iron Furnace Slag	Determination of Water Soluble Chloride	TS EN ISO 11127-7
Slag	Determination of Aluminum (Al), Magnesium (Mg), Iron (Fe), Manganese (Mn), Titanium (Ti)	EPA 3051 A EPA 6010 D
Gypsum and Gypsum Products	Determination of Combined Water Gravimetric Method	ASTM C 471M
Gypsum and Gypsum Products	Determination of Free Water Gravimetric Method	ASTM C 471M
Gypsum and Gypsum Products	Determination of Sulfate (SO ₃) XRF method	Inhouse Method (DT-M08 Rev.01)
Building Lime	Determination of Calcium Oxide (CaO) XRF Spectrometer Method	Inhouse Method (DT-M09 Rev.01)
Building Lime	Determination of Free Water Gravimetric Method	TS EN 459-2
Building Lime	Determination of Loss on Ignition Gravimetric Method	TS EN 459-2
Soda	Determination of Iron	In-house Method (DT-SD01 Rev.01)
Soda	Determination of Size	ASTM E 359
Soda	Determination of Loss on Ignition	ASTM E 359 TS 525
Sulphur	Determination of moisture	TS 2840



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 Test TS EN ISO/IEC 17025 AB-0011-T	STANDART LABORATUVARLAR İŞLETMECİLİĞİ A.Ş. Accreditation Nr: AB-0011-T Revision Nr: 021 Date: 11.10.2021
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sulphur	Acidity Determination Titrimetric Method	TS 2841
Geological Samples, Ore Samples and Concentrates	Determination of Copper (Cu), Lead (Pb), Zinc (Zn) Analysis: ICP OES Method	Inhouse Method (DT-M13 Rev.00)
Geological Samples, Ore Samples and Concentrates	Determination of Loss on Ignition	Inhouse Method (DT-M14 Rev.01)
Geological Samples, Ore Samples and Concentrates	Determination of Moisture	Inhouse Method (DT-M01 Rev.03) (from TS ISO 10251 and ISO 3087)
Geological Samples, Ore Samples and Concentrates	Size Determination	TS 3479 ISO 2591-1
Geological Samples, Ore Samples and Concentrates	Determination of Silver (Ag) Pretreatment: Cupellation Analysis: ICP-OES Method	Inhouse Method (DT-M02 Rev.02)
Geological Samples, Ore Samples and Concentrates	Determination of Gold (Au) Pretreatment: Cupellation Analysis: ICP-OES Method	Inhouse Method (DT-M02 Rev.02)
Geological Samples, Ore Samples and Concentrates	Determination of Chromium (Cr) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.03)
Geological Samples, Ore Samples and Concentrates	Determination of Chromium (Cr) Titrimetric Method	Inhouse Method (DT-M04 Rev.02)
Geological Samples, Ore Samples and Concentrates	Determination of Iron (Fe) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.03)
Geological Samples, Ore Samples and Concentrates	Determination of Iron (Fe) Titrimetric Method	Inhouse Method (DT-M06 Rev.02)



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Iron Ores and Concentrates	Determination of Moisture Content	ISO 3087
Geological Samples, Ore Samples and Concentrates	Determination of Manganese (Mn) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.03)
Geological Samples, Ore Samples and Concentrates	Determination of Manganese (Mn) Titrimetric Method	Inhouse Method (DT-M05 Rev.02)
Copper, Lead and Zinc Sulfur Concentrates	Transportable Moisture Limit (TML) Determination	ISO 12742
Geological Samples, Ore Samples and Concentrates	Pt Group Elements (Platinum, Rhodium, Palladium, Iridium)	Inhouse Method (DT-M17 Rev. 00)
Boron Ores and Concentrates (Boric Acid, Bor Oxide, Anhydrous Boric Acid)	Boron Trioxide (B ₂ O ₃) Determination Titrimetric Method	TS 13665
Boron Ore and Concentrates (Borax Decahydrate, Borax Pentahydrate, Anhydrous Borax)	Boron Trioxide (B ₂ O ₃) Determination Titrimetric Method	TS 13675
Boron Ore and Concentrates (Disodium Octaborate Tetrahydrate)	Boron Trioxide (B ₂ O ₃) Determination Titrimetric Method	TS 13675
Boron Ores and Concentrates (Colemanite Ulexite)	Boron Trioxide (B ₂ O ₃) Determination Titrimetric Method	TS 13664

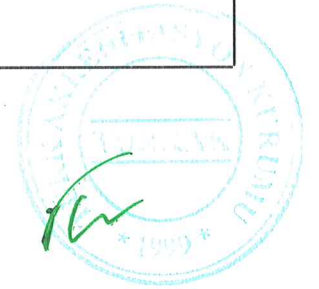


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Boron Ores and Concentrates	Sulphate (SO ₄ ⁻²) Determination Turbidimetric Method	Inhouse Method (DT-M20 Rev. 00)
Boron Ore and Concentrates (Borax Decahydrate, Borax Pentahydrate, Anhydrous Borax, Disodium Octaborate Tetrahydrate)	Determination of Sodium Oxide Titrimetric Method	Inhouse Method (DT-M21 Rev. 00)
Boron Ore and Concentrates (Boric Acid)	Particle Size Determination	Inhouse Method (DT-M22 Rev. 00)
Boron Ores and Concentrates (Colemanite)	Moisture Determination Gravimetric Method	TS ISO 11648-2 (Part 20)
Boron Ores and Concentrates (Colemanite Ulexite)	Determination of Loss on Ignition Gravimetric Method	TS 13823
Magnesite Ores and Concentrates	MgO, Fe ₂ O ₃ , SiO ₂ , CaO, Al ₂ O ₃ , Cr ₂ O ₃ Tayini XRF Spektrometre ile	Inhouse Method (DT-M03 Rev. 03)
Magnesite Ores and Concentrates	Determination of Loss on Ignition	Inhouse Method (DT-M14 Rev.01)
Magnesite Ores and Concentrates	Determination of Moisture Content	Inhouse Method (DT-M01 Rev.03) (from TS ISO 10251 and ISO 3087)
Copper, Lead and Zinc Sulfur Concentrates	Determination of Moisture Gravimetric Method	TS ISO 10251



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Metallic Materials Carbon and Low Alloy Steels	Determination of Carbon (C), Silicon (Si), Manganese (Mn), Phosphorus (P), Sulfur (S), Chrome (Cr), Molybdenum (Mo), Nickel (Ni), Aluminum (Al), Copper (Cu), Vanadium (V) Elements Measurement : Spark OES Method	ASTM E 415
Metallic Materials Stainless steel	Determination of Carbon (C), Silicon (Si), Manganese (Mn), Phosphorus (P), Sulfur (S), Chrome (Cr), Molybdenum (Mo), Nickel (Ni), Copper (Cu), Elements Measurement : Spark OES Method	ASTM E 1086
Metallic Materials Aluminum and Aluminum Alloys	Determination of Carbon (C), Phosphorus (P) Sulfur (S), Molybdenum (Mo), Aluminum (Al), Vanadium (V) Elements Measurement : Spark OES Method	In-house Method (DT-MM12 Rev No: 01) (TS EN 14726/2006)
Metallic Materials Cast Irons	Determination of Carbon (C), Silicon (Si), Manganese (Mn), Phosphorus (P) Sulfur (S), Chrome (Cr), Molybdenum (Mo), Nickel (Ni), Copper (Cu), Vanadium (V) Elements Measurement : Spark OES Method	ASTM E 1999
Metal Alloys FeSi	Determination of Silicon (Si), Aluminum (Al) ED-XRF Spectrometric Method	In-house Method (DT-MM01 Rev.01) (DIN 51418-2)
Metal Alloys FeMn	Determination of Mangan (Mn), Phosphorus (P) ED-XRF Spectrometric Method	In-house Method (DT-MM01 Rev.01) (DIN 51418-2)
Metal Alloys FeSiMn	Determination of Silicon (Si), Manganese (Mn), Aluminum (Al) ED-XRF Spectrometric Method	In-house Method (DT-MM01 Rev.01) (DIN 51418-2)
Metal Alloys FeMo	Determination of Molybdenum (Mo), Copper (Cu) ED-XRF Spectrometric Method	In-house Method (DT-MM01 Rev.01) (DIN 51418-2)

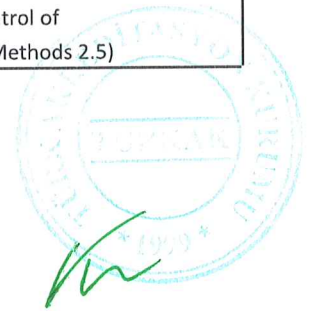


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Metal Alloys FeSiMg	Determination of Magnesium (Mg), Silicon (Si), Aluminum (Al) ED-XRF Spectrometric Method	In-house Method (DT-MM01 Rev.01) (DIN 51418-2)
Metal Alloys FeCr	Determination of Chrome (Cr) ED-XRF Spectrometric Method	In-house Method (DT-MM01 Rev.01) (DIN 51418-2)
Metal Alloys FeV	Determination of Vanadium (V) ED-XRF Spectrometric Method	In-house Method (DT-MM01 Rev.01) (DIN 51418-2)
Metal Alloys FeMn, FeSiMn, FeCr	Determination of Carbon (C) Induction IR Spectrometric Method	In-house Method (DT-MM02 Rev.02) (ISO 7524 /ASTM E 1019)
Plastics	Determination of Melting Properties of Semi-Crystal Polymers	TS EN ISO 3146+AC (Metot A)
Fertilizers	Determination of Free Moisture Gravimetric Method	TS 2832
Fertilizers	Determination of Total Nitrogen (N) Combustion Method At High Temperature (950 °C)	AOAC 993.13
Fertilizers	Particle Strength Determination	AOAC Method IV B
Fertilizers	Anti-Caking Agent in Fertilizer (Anticaking Agent) Determination Gravimetric Method	In-house Method (DT - G07 Rev.00)
Fertilizers (Urea Fertilizer)	Biurea Determination in the Product Spectrophotometric Method	TS EN 15479 (Regulation on Market Surveillance and Control of Fertilizer, Annex -3 Methods 2.5)



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Fertilizers	Determination of Total Sulfur in Different States Pretreatment: Extraction with Dilute Hydrochloric Acid Determination: Gravimetric Method as Barium Sulphate	TS EN 15960 TS EN 15749 (Regulation on Market Surveillance and Control of Fertilizer, Annex -3 Methods 8.9)
Fertilizers	Determination of Water Soluble Matter	Inhouse Method (DT - G05 Rev.01) (SM 2540 C)
Fertilizers (Ammonium Sulphate Fertilizer)	Determination of Free Acidity	TS 856 TS 2078
Fertilizers	Determination of Water Soluble Potassium Pre-treatment: Water extraction Determination: Gravimetric Method with Sodium Tetrafenyl Borate	TS EN 15477 (Regulation on Market Surveillance and Control of Fertilizer Annex 3 Methods 4.1)
Fertilizers	Determination of Extracted Phosphorus (soluble in mineral acids) Pre-treatment: extraction with mineral acids Determination: Gravimetric Method with Quinoline Phosphomolybdate	TS EN 15956 TS EN 15959 (Regulation on Market Surveillance and Control of Fertilizer Annex 3 Methods 3.1.1 and 3.2)
Fertilizers	Determination of Particle Size Distribution	TS 3479 ISO 2591-1
Fertilizers (Ammonium Nitrate, Calcium Ammonium Nitrate Fertilizers)	pH Determination Electrometric Method	TS 836 (Chemical Fertilizer Control Regulation Used in Agriculture Method 7.4)
Waste Oil	Petroleum Liquids - Manual Sampling	TS 900-1 EN ISO 3170
Waste Oil	Sampling for Insulating Fluids	TS EN 60475
Waste Oil	Determination of Polychlorinated (PCBs) (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Pre-Treatment: Silica Gel Cleaning Pre-Treatment: Sulfuric Acid Cleaning Measurement: GC-ECD method	TS EN 12766 -1 TS EN 12766 -2



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste Oil	Determination of Flash Point Closed Cup Method	ASTM D 93
Waste Oil	Determination of Combustion Heat Calorimeter Method	ASTM D 240 TS 1740
Waste Oil	Determination of Sulfur ED-XRF Spectrometric Method	TS EN ISO 8754
Waste Oil	Determination of Cadmium (Cd), Chromium (Cr), Lead (Pb), Arsenic (As) Pretreatment: Microwave Extraction Method Measurement: ICP-OES Method	EPA 3051 A TS EN ISO 11885
Waste Oil	Determination of Bromide, Fluoride, Chloride Pre-Processing: Oxygen-Calorimetry Method Measurement: IC Method	EPA 5050 TS EN ISO 10304-1
Waste Water	Sampling Techniques	TS ISO 5667-10
Waste Water	Determination of Suspended Solids Gravimetric Method	TS EN 872
Waste Water	Determination of pH Electrometric Method	TS EN ISO 10523
Waste Water	Determination of Conductivity Electrode Method	TS 9748 EN 27888
Waste Water	Determination of Dissolved Oxygen Membrane Electrode Method	SM 4500-O G



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste Water	Turbidity Determination Nephelometric Method	SM 2130 B
Waste Water	Determination of Bromide, Fluoride, Chloride, Nitrate, Nitrite, Orthophosphate, Sulfate IC Method	TS EN ISO 10304-1
Waste Water	Sulfide Determination IC Method	TS EN ISO 10304-3
Waste Water	Determination of Aluminum (Al), Cadmium (Cd), Cobalt (Co), Total Chromium (T.Cr), Copper (Cu), Iron (Fe), Manganese (Mn), Nickel (Ni), Total Phosphorus (T.P), Vanadium (V), Lead (Pb), Zinc (Zn), Barium (Ba), Sodium (Na), Boron (B), Silver (Ag), Arsenic (As), Tin (Sn) Measurement : ICP-OES Method	TS EN ISO 11885
Waste Water	Determination of Mercury (Hg) ICP-OES - By Hydride System	In-house Method (DT-SO ₄ Rev No: 02) (from ISO 11885 utilizing)
Waste Water	Determination of Mercury (Hg) Measurement: ICP-MS Method	TS EN ISO 17294 1-2
Waste Water	Determination of Oil and Grease Pre-Treatment: Sokslet Extraction Method Measurement: Gravimetric Method	SM 5520 D
Waste Water	Determination of Oil and Grease Pre-Treatment: Solvent Extraction Method Measurement: Gravimetric Method	SM 5520 B
Waste Water	Determination of Color Spectrophotometric Method	TS EN ISO 7887 C



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste Water	Determination of Settleable Solids Volumetric Method	TS 7092
Waste Water	Determination of Fish Bioassay	TS 5676 S.K.K.Y. Sampling and Analysis Methods related (Annex 1)
Waste Water	Determination of Salinity Electrical Conductivity Method	TS 8108
Waste Water	Determination of Sulfur (S ²⁻) Spectrophotometric Method	SM 4500 S ⁻² D
Waste Water	Determination of Chemical Oxygen Demand (COD) Open Reflux - Titrimetric Method	SM 5220 B
Waste Water	Determination of Temperature Laboratory and Field Methods	SM 2550 B
Waste Water	Determination of Phenol Pretreatment: Distillation Method Analysis: Spectrophotometric Method	SM 5530 B SM 5530 D
Waste Water	Determination of Free Chlorine Spectrophotometric Method	TS EN ISO 7393-2
Waste Water	Determination of Total Chlorine Spectrophotometric Method	TS EN ISO 7393-2
Waste Water	Determination of Hydrocarbons Pre-Process: Soxlet Extraction Method Measurement: Gravimetric Method	SM 5520 D and F



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste Water	Determination of Chromium (VI) Spectrophotometric Method	SM 3500-Cr B
Waste Water	Determination of Total Kjeldahl Nitrogen Macro-Kjeldahl Method	SM 4500 Norg B
Waste Water	Determination of Biological Oxygen Demand (BOD) Determination of BOD after n-days	TS 4957-1 EN 1899-1
Waste Water	Free Cyanide Determination Spectrophotometric Method	SM 4500-CN E
Waste Water	Determination of Total Cyanide (CN ⁻) Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Waste Water	Determination of Hydrazine Spectrophotometric Method	ASTM D1385-07
Waste Water	Determination of Ammonium / Ammonium Nitrogen Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Waste Water	Determination of Surfactant (MBAS) Pretreatment: Separation with Sublation Apparatus Measurement: Spectrophotometric Method	SM 5540 B SM 5540 C
Waste Water	Total Dissolved Solids Determination Gravimetric Method	TS 4111



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste Water	Determination of Total Organic Carbon (TOC) / Dissolved Organic Carbon (DOC) Oxidation Method	TS 8195 EN 1484
Water	Sampling from Rivers and Streams	TS EN ISO 5667-6
Water	Sampling from Groundwater	TS ISO 5667-11
Water	Sampling from Lake and Ponds	TS ISO 5667-4
Water	Suspended Solids (SS) Determination Gravimetric Method	TS EN 872
Water	Determination of pH Electrometric Method	TS EN ISO 10523
Water	Conductivity Determination Electrode Method	TS 9748 EN 27888
Water	Determination of Dissolved Oxygen Membrane Electrode Method	SM 4500-O G
Water	Turbidity Determination Nephelometric Method	SM 2130 B
Water	Determination of Bromide, Fluoride, Chloride, Nitrate, Nitrite, Orthophosphate, Sulfate IC Method	TS EN ISO 10304-1
Water	Sulfide Determination IC Method	TS EN ISO 10304-3
Water	Color Determination Spectrophotometric Method	TS EN ISO 7887 C
Water	Chemical Oxygen Demand (COD) Determination Open Reflaks-Titrimetric Method	SM 5220 B



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Chromium (VI) Determination Spectrophotometric Method	SM 3500-Cr B
Water	Determination of Total Kjeldahl Nitrogen The Macro Kjeldahl Method	SM 4500-Norg B
Water	Biological Oxygen Demand (BOD) Determination n- BOD Determination After Day	TS 4957-1 EN 1899-1
Water	Determination of Ammonium / Ammonium Nitrogen Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Water	Determination of Surfactant (MBAS) Pre-Process: Separation with Sublation Apparatus Measurement: Spectrophotometric Method	SM 5540 B SM 5540 C
Water	Determination of Hydrazine Spectrophotometric Method	ASTM D1385-07
Water	Total Dissolved Solids Determination Gravimetric Method	TS 4111



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Aluminum (Al), Arsenic (As), Barium (Ba), Boron (B), Cadmium (Cd), Chrome (Cr) Cobalt (Co), Copper (Cu), Mercury (Hg), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Phosphorus (P), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr), Tin (Sn), Vanadium (V), Zinc (Zn), Zirconium (Zr) Determination Measurement: ICP-MS Method	TS EN ISO 17294 1 - 2
Water	Silicon (Si) Determination Measurement: ICP-OES Method	TS EN ISO 11885
Water	Determination of Free Chlorine Spectrophotometric Method	TS EN ISO 7393-2
Water	Determination of Total Chlorine Spectrophotometric Method	TS EN ISO 7393-2
Water	Free Cyanide Determination Spectrophotometric Method	SM 4500-CN E
Water	Determination of Total Cyanide Pretreatment: Distillation Method Analysis: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Water	Determination of Total Organic Carbon (TOC) / Dissolved Organic Carbon (DOC) Oxidation Method	TS 8195 EN 1484
Sediment	Sampling from Bottom Sediments	TS 9547 ISO 5667-12
Sediment	Determination of Total Organic Carbon (TOC) High Temperature Combustion Method	TS EN 15936

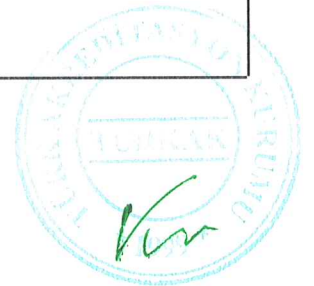


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste	Sampling from Solid Wastes	TS 12090
Waste	Determination of pH Pretreatment: Solid Extraction Method Measurement: Electrometric Method	TS EN 12457-4 SM 4500 H ⁺ B
Waste	Determination of pH Electrometric Method	TS 12072
Waste	Determination of Fluoride, Chloride and Sulphate Pretreatment: Solid Extraction Method Measurement: IC Method	TS EN 12457-4 TS EN ISO 10304-1
Waste	Dry Matter (%) Content / Moisture (%) Determination Gravimetric Method	TS 9546 EN 12880
Waste	Determination of the Heating Loss of Dry Mass Gravimetric Method	TS EN 12879
Waste	Total Dissolved Substance (TDS) Pretreatment: Solid Extraction Method Measurement: Gravimetric Method	TS EN 12457-4 SM 2540C



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste	Antimony (Sb), Arsenic (As), Barium (Ba), Mercury (Hg), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Zinc (Zn) Determination Pretreatment: Solid Extraction Method Measurement: ICP-MS Method	TS EN 12457-4 TS EN ISO 17294 1-2
Waste	Determination of Total Organic Carbon (TOC) High Temperature Combustion Method	TS EN 15936
Waste	Determination of Total Organic Carbon (TOC) and Dissolved Organic Carbon (DOC) Pretreatment: Solid Extraction Method Measurement: Oxidation Method	TS EN 12457-4 TS 8195 EN 1484
Waste	Phenol Determination Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 5530 B SM 5530 D
Sewage Sludge	Sludge Sampling from Sewage and Water Treatment Plants	TS EN ISO 5667-13
Sewage Sludge	Determination of pH Electrometric Method	TS ISO 10390
Sewage Sludge	Dry Matter (%) Content / Moisture (%) Determination Gravimetric Method	TS 9546 EN 12880
Sewage Sludge	Determination of the heating loss of dry mass Gravimetric Method	TS EN 12879

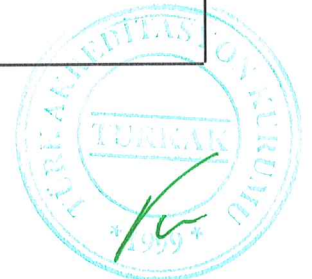


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sewage Sludge	Antimony (Sb), Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Zinc (Zn) Determination Pretreatment: Microwave Extraction Measurement: ICP-OES Method	EPA 3051A EPA 6010 D
Sewage Sludge	Mercury (Hg) Determination Pretreatment: Solid Extraction Method Measurement: ICP-MS Method	EPA 3051 A EPA 6020 B
Sewage Sludge	Determination of Ash Amount Gravimetric Method	Inhouse Method (DT-A15 Rev No:00)
Sewage Sludge	Determination of Volatile Matter Gravimetric Method	Inhouse Method (DT-A16 Rev No:00)
Sewage Sludge	Determination of Upper Thermal Value and Calculation of Lower Thermal Value Bomb Calorimeter Method	Inhouse Method (DT-A17 Rev No:00) (It has been modified from TSE CEN /TS 16023 standard.)
Sewage Sludge	Determination of Total Organic Carbon (TOC) High Temperature Combustion Method	TS EN 15936
Soil	Sampling from Surface Soils, Transport and Storage of Samples	TS 9923
Soil	Determination of pH Electrometric Method	TS ISO 10390
Soil	Antimony (Sb), Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Zinc (Zn) Determination Pretreatment: Microwave Extraction Measurement: ICP-OES Method	EPA 3051A EPA 6010 D



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Soil	Mercury (Hg) Determination Pretreatment: Solid Extraction Method Measurement: ICP-MS Method	EPA 3051 A EPA 6020 B
Soil	Determination of Total Organic Carbon (TOC) High Temperature Combustion Method	TS EN 15936
Soil	Dry Matter (%) Content / Moisture (%) Determination Gravimetric Method	TS 9546 EN 12880
Soil	Determination of the heating loss of dry mass Gravimetric Method	TS EN 12879
Soil	Determination of Oil & Grease Pretreatment Soxhlet Extraction Method Measurement: Gravimetric Method	SM 5520 E
Soil	Total Dissolved Matter Pretreatment: Solid Extraction Method Measurement: Gravimetric Method	TS EN 12457-4 SM 2540C
Soil	Conductivity Determination Electrode Method	TS ISO 11265 TS ISO 11265/Cor.1
Soil	Salinity Determination Electrical Conductivity Method	TS 8334
Soil	Determination of Fluoride, Chloride, Nitrite / Nitrite Nitrogen, Nitrate / Nitrate Nitrogen, Phosphate / Phosphate Phosphorus, Bromide and Sulphate Pre-Treatment: Extraction with Water Pre-Treatment: 0.45 um Filtration Measurement: IC Method	EPA 300.0

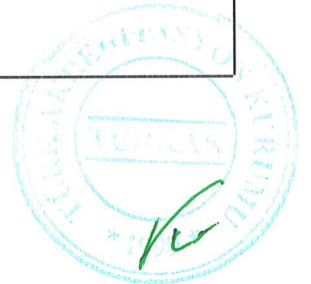


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas	Stationary Source Emissions - Manual determination of mass concentration of particulate matter (20 to 1000 mg / m ³) Gravimetric Method	TS ISO 9096
Stack Gas	Stationary Source Emissions Determination of low range mass concentration of dust (5-50 mg / m ³) Gravimetric Method	TS EN 13284 - 1
Stack Gas	Stationary Source Emissions - Determination of Gas Flow Rate and Flow Rate in Duct Measurement: L and S Type Pitot Tubes	TS ISO 10780*
Stack Gas	Stationary Source Emissions - Determination of Smoke Density (Smut) The Bacharach Method	TS 9503*
Stack Gas	Stationary Source Emissions - Determination of Nitrogen Monoxide (NO), Nitrogen Dioxide (NO ₂) and Nitrogen Oxide (NO _x) Emissions Electrochemical Cell Method	EPA CTM 022*
Stack Gas	Fixed Source Emissions Carbon monoxide (CO) and Carbon dioxide (CO ₂) Mass Determination of Concentrations Measurement: Electrochemical Cell method	TS ISO 12039*
Stack Gas	Fixed Source Emissions-Determination of Oxygen (O ₂) Mass Concentrations Measurement: Electrochemical Cell Method	TS ISO 12039 *
Stack Gas	Stationary Source Emissions - Determination of Mass Concentration of Sulfur Dioxide (SO ₂) Measurement: Electrochemical Cell Method	TS ISO 7935*

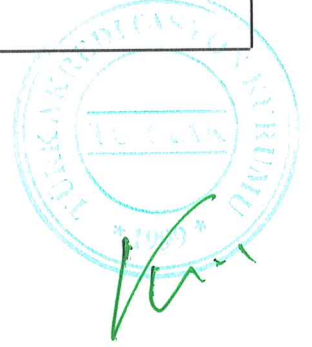


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas	Stationary Source Emissions - Determination of Moisture Content Measurement: Volumetric Method Measurement: Gravimetric Method	EPA Method 4
Stack Gas	Stationary Source Emissions -Determination of Moisture by Humidity Probe (≤ 180 °C for the stack temperature)	Inhouse Method (DT - B05 Rev.02)*



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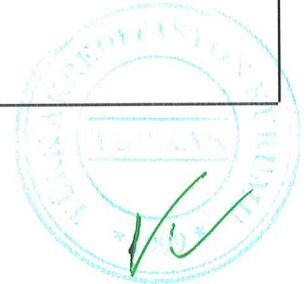
Accreditation Scope



STANDART LABORATUVARLAR İŞLETMECİLİĞİ A.Ş.


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas	Stationary Source Emissions - Determination of the mass concentration of individual gaseous organic compounds - Activated carbon and solvent desorption method Benzene, Bromobenzene, n-Butyl Benzene, Ethylbenzene, 4-Isopropyl Toluene, Styrene, Toluene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, m-Xylene, Naphthalene, trans-1,2-Dichloroethene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Bromochloromethane, Chloroform, 2,2-Dichloropropane, 1,2-Dichloroethane, 1,1,1-Trichloroethane, 1,1-Dichloropropene, Dibromomethane, 1,2-Dichloropropane, Trichloroethene, Bromodichloromethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,3-Dichloropropane, Dibromochloromethane, 1,2-Dibromoethane, Tetrachloroethene, 1,1,1,2-Tetrachloroethane, Chlorobenzene, Bromoform, o-Xylene, 1,2,3-Trichloropropane, Isopropylbenzene (Cumene), n-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, tert-Butylbenzene, sec-Butylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, Hexachlorobutadiene, 1,1,2,2-Tetrachloroethane, p-Xylene, (GC - FID)	TSE CEN/TS 13649



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas	Stationary Source Emissions- Determination of Dust Emission Amount with Stack Outside Sampling Pretreatment: Gravimetric Method	EPA Method 5
Stack Gas	Stationary Source Emissions Determination of Dust Emission Amount with Stack Inside Sampling Gravimetric Method	EPA Method 17
Stack Gas	Stationary Source Emissions - Sampling of Gaseous Chlorides Defined as HCl and Sampling of Mass Concentration and determination Measurement: Spectrophotometric Method	TS EN 1911
Stack Gas	Stationary Source Emissions - Hydrogen Cyanide (HCN) Sampling and Determination Measurement: Spectrophotometric Method	CARB 426
Stack Gas	Stationary Source Emissions -Six-Value Chromium (Cr ⁺⁶) Sampling and Determination Measurement: Spectrophotometric Method	CARB 425
Stack Gas	Stationary Source Emissions - Determination of Mass Concentration of Total Organic Carbon in Gas State at Low Concentrations in Flue Gases Measurement: FID Analyzer	TS EN 12619*
Stack Gas	Stationary Source Emissions - Formaldehyde Sampling and Determination From Stationary Sources Using Natural Gas Measurement: Spectrophotometric Method	EPA Method 323



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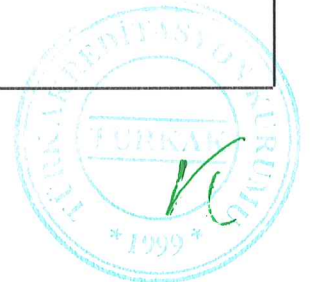
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas	Stationary Source Emissions Determination of Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chrome (Cr), Cobalt (Co), Copper (Cu), Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Phosphorus (P), Selenium (Se), Silver (Ag), Thallium (Tl), Zinc (Zn) Measurement: ICP-OES Method	EPA Method 29
Stack Gas	Stationary Source Emissions Determination of Arsenic (As), Cadmium (Cd), Chrome (Cr), Cobalt (Co), Copper (Cu), Manganese (Mn), Nickel (Ni), Lead (Pb), Antimony (Sb), Talyum (Tl) and Vanadium (V) Measurement: ICP-OES Method	TS EN 14385
Stack Gas	Stationary Source Emissions -Determination of Total Fluorine (F) Measurement: Spectrophotometric (SPANDS Zirconium) Method	EPA Method 13 A
Stack Gas	Stationary Source Emissions - Hydrogen Halide and Halogen (HCl, HF, HBr, Cl ₂ , Br ₂) Assay Sampling: Isokinetic Method Measurement: IC Method	EPA Method 26 A



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas	Stationary Source Emissions - Sulfuric Acid (H ₂ SO ₄) Vapor, Sulfur Trioxide (SO ₃), Sulfur Dioxide (SO ₂) Amount Sampling and Determination Measurement: Titrimetric Method (BariumThorin)	EPA Metot 8
Stack Gas	Stationary Source Emissions -Determination of Hydrogensulfide (H ₂ S) Ratio in Gasoline Steam in Petroleum Refineries Pretreatment: Solution Absorption Measurement: Titrimetric Method	EPA Metot 11
Stack Gas	Stationary Source Emissions - Ammonia Sampling and Determination Measurement: Ion Selective Electrode Method	SCAQMD Metot 207.1
Stack Gas	Stationary Source Emissions -Phosphoric Acid Sampling and Determination Pretreatment: Solution Absorption Measurement: Spectrophotometric Method	NMX-A-90
Immission (Ambient Air)	Suspended Solids in the determination of the fraction PM 10 Gravimetric Method	EPA 40 CFR 50 App J-M
Immission (Ambient Air)	Determination of Precipitated Dust Gravimetric Method	TS 2342
Immission (Ambient Air)	Determination of Heavy Metals in Precipitated Dust Thallium (Tl), Lead (Pb), Cadmium (Cd) Measurement: ICP-MS Method	VDI 2267 Part 2
Immission (Ambient Air)	Determination of Heavy Metals in the PM10 fraction of suspended particulate matter Arsenic (As), Cadmium (Cd), Nickel (Ni), Lead (Pb) Measurement: ICP-MS Method	VDI 2267 Part 1

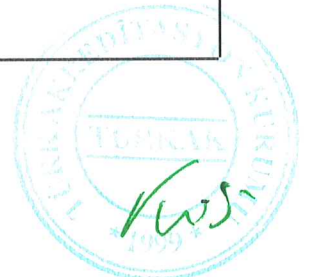


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Acoustic - Noise	Acoustic-Description, Measurement and Evaluation of Environmental Noise-Part 1: Basic Quantities and Evaluation Procedures	TS ISO 1996-1
Acoustic - Noise	Definition, Measurement and Evaluation of Acoustic-Environmental Noise-Part 2: Determination of Sound Pressure Levels	TS ISO 1996-2
Industrial Hygiene Dust	Determination of Total and Breathable Powder Sampling: Sampling to the filter by pump Measurement: Gravimetric Method	HSE-MDHS 14 / 3
Industrial Hygiene Noise	Measuring the Level of Noise Exposure of People and Detection of Hearing Loss	TS 2607 ISO 1999 (Repealed on 09.11.2020, but included in the scope of accreditation until 31.12.2021, based on the request of the organization.)
Industrial Hygiene Noise	Measurement of Noise Exposed in Working Environment	TS EN ISO 9612
Industrial Hygiene Lighting	Determination of Lighting Levels / Lighting Level	COHSR-928-1-IPG-039
Industrial Hygiene Thermal Comfort	Determination of PMV and PPD Indices for Moderate Thermal Environments, Determination of Conditions for Thermal Comfort	TS EN ISO 7730
Industrial Hygiene Thermal Comfort	Ergonomics of the Thermal Environment - Evaluation of Heat Stress Using the WBGT (Wet Bulb Global Temperature) Index	TS EN ISO 7243
Industrial Hygiene Instant Gas Measurement	Oxygen (O ₂) Determination Sampling and Measurement: Electrochemical Cell Method	NIOSH-NMAM 6601
Industrial Hygiene Instant Gas Measurement	Carbon Monoxide (CO) Detection Sampling and Measurement: Electrochemical Cell Method	NIOSH-NMAM 6604



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Industrial Hygiene Volatile Organic Compounds	<p>Determination of Volatile Organic Compounds</p> <p>Benzene, Bromobenzene, n-Butyl Benzene, Ethylbenzene, 4-Isopropyltoluene, Styrene, Toluene, 1,2,3-Trichlorbenzene, 1,2,4-Trichlorbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, m-Xylene, Naphthalene, trans-1,2-Dichloroethene, 1,1-Dichloroethane, cis- 1,2-Dichloroethene, Bromochloromethane, Chloroform, 2,2-Dichloropropane, 1,2-Dichloroethane, 1,1,1-Trichloroethane, 1,1-Dichloropropene, Dibromomethane, 1,2-Dichloropropane, Trichloroethene, Bromodichloromethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,3-Dichloropropane, Dibromochloromethane, 1,2-Dibromoethane, Tetrachloroethene, 1,1,1,2-Tetrachloroethane, Chlorbenzene, Bromoform, o-Xylene, 1,2,3-Trichloropropane, Isopropylbenzene (Cumen), n-Propylbenzene, 2-Chlortoluene, 4-Chlortoluene, tert-Butylbenzene, sec-Butylbenzene, 1,3-Dichlorbenzene, 1,4-Dichlorbenzene, 1,2-Dichlorbenzene, 1,2-Dibromo-3-chloropropane, Hexachlorbutadiene, 1,1,2,2-Tetrachloroethane, p-Xylene</p> <p>Sampling: Pumping Sorbent Tube Sampling Pre-Treatment: Solvent Desorption Measurement: GC-FID Method</p>	TS ISO 16200-1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Industrial Hygiene Heavy Metals	Determination of Heavy Metals and Compounds Lead (Pb), Cadmium (Cd), Chrome (Cr), Nickel (Ni), Zinc (Zn), Copper (Cu), Mangan (Mn), Iron (Fe), Cobalt (Co), Arsenic (As), Aluminum (Al), Antimony (Sb), Barium (Ba), Calcium (Ca), Magnesium (Mg), Phosphorus (P), Silver (Ag), Tin (Sn), Vanadium (V) Sampling: Sampling the filter with the pump Pre-Treatment: Acid Combustion in the Hotplate Measurement: ICP-OES Method	NIOSH-NMAM 7300
Industrial Hygiene Detector Tube Instant Gas Measurement	Toxic Gas Or Steam Determination of Concentrations (Carbon dioxide (CO ₂), Sulfur dioxide (SO ₂), Ammonia (NH ₃), Hydrogen sulfide (H ₂ S), Nitrogen oxides (NO _x), Hydrogen (H)) Sampling and Measurement: Detector Tube Instant Measurement	ASTM D 4490 - 96
Industrial Hygiene Inorganic Acids	Determination of Non-Volatile Acids (Sulfuric Acid (H ₂ SO ₄) and Phosphoric Acid (H ₃ PO ₄)) Sampling: Pump and Filter Sampling Measurement: Ion Chromatography with Conductivity Detector	NIOSH-NMAM 7908
Industrial Hygiene Inorganic Acids	Determination of Hydrochloric Acid (HCl), Nitric Acid (HNO ₃) Sampling: Pump and Filter Sampling Pre-Treatment: Solvent Desorption Measurement: Ion Chromatography with Conductivity Detector	NIOSH-NMAM 7907



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Industrial Hygiene Formaldehyde	Determination of Formaldehyde (CH ₂ O) Sampling: Pump with filter + impingera sampling Measurement: Visible Spectrophotometer	NIOSH-NMAM 3500
Industrial Hygiene Vibration	Measurement and evaluation of human exposure to hand-transmitted vibration	TS EN ISO 5349-1 TS EN ISO 5349-2
Industrial Hygiene Vibration	The Whole Body Vibration Exposure Measurement and Evaluation	TS ISO 2631-1 (TS EN 1032+A1)
Industrial Hygiene Alkaline Powders	Determination of Alkaline Dusts (Sodium Hydroxide (NaOH), Potassium Hydroxide (KOH), Lithium Hydroxide (LiOH)) Sampling: Sampling with pump Analysis: Titration Method	NIOSH-NMAM 7401
Industrial Hygiene Silica Crystals	Determination of Crystalline Silica (SiO ₂) in Respirable Dust Sampling: Sampling with Pump to Filter Pre-Treatment: Acid Burning the MCE Filter Pre-Treatment: Acid Burning the PVC Filter Pre-Treatment: Ashing in Muffle Furnace Pre-Treatment: Low Temperature Ashing Measurement: Visible Region Absorption Spectrophotometer	NIOSH-NMAM 7601

*On Customer's site, temporary or on mobile facilities

End of Scope

Banuyıl

G. Banu MÜDERRİSOĞLU
Secretary General

