



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory,

STANDART LABORATUVARLAR İŞLETMECİLİĞİ A.Ş.

Atalar Mah. İslilay 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 TÜRKAK.

Accreditation Number : AB-0011-T

Accreditation Date : 30 November 2004

Revision Date / Number : 22 July 2020 / 019

This certificate shall remain in force until 10 July 2021, subject to continuing compliance with the standard TS EN ISO/IEC 17025:2017, related regulations and requirements.



Banu Müderrisoğlu

G. Banu MÜDERRİSOĞLU
Secretary General

Turkish Accreditation Agency (TÜRKAK) 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

 TÜRKAK Test TS EN ISO /IEC 17025 AB-0011-T	STANDART LABORATUVARLAR İŞLETMECİLİĞİ A.Ş. Accreditation Nr: AB-0011-T Revision Nr: 019 Date: 15.09.2020
	As a Testing Laboratory

Address: Atalar Mah. İşilay Sok. No: 33 Yarımca-Körfez 41740 KOCAELİ/TÜRKİYE	Phone : 0262 528 10 94 Fax : 0262 528 10 95 E-Mail : info@standardlab.org Website : www.standardlab.org
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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	Determination of Total Moisture in Coke	TS ISO 579
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
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

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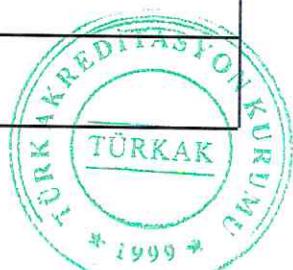


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Coal	Determination of Carbon, Hydrogen and Nitrogen in Analysis Samples of Coal Instrumental Method	ASTM D 5373
Coal, Coke	Determination of 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, Coke	Determination of Hardgrove Grindability Index Hardgrove (HGI) Method	ASTM D 409/D409 M
Hard Coal	Determination of Particle Size Distribution Screening Method	TS ISO 1953
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 1632 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 15402



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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 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 ISO 11885
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
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
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



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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 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
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)	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

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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 Melting	CEN/TS 15370-1
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 Oils	Determination of Combustion Heat Calorimeter Method	ASTM D 240 TS 1740
Mineral Oils	Determination of Sulfur (S) Energy Separated X-Ray Fluorescence Spectrometry Method	TS EN ISO 8754
Mineral Oils	Density Determination Oscillating U-Tube Method	ASTM D 4052
Mineral Oils	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS 1451 EN ISO 3104
Fuel Oil Types	Determination of Combustion Heat Calorimeter Method	ASTM D 240 TS 1740



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Fuel Oil Types	Determination of Sulfur (S) Energy Separated X-Ray Fluorescence Spectrometry Method	TS EN ISO 8754
Fuel Oil Types	Density Determination Oscillating U-Tube Method	ASTM D 4052
Fuel Oil Types	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS 1451 EN ISO 3104
Fuel Oil Types	Flash Point Determination Pensky-Martens Closed Cup Method	ASTM D 93
Diesel Types	Determination of Combustion Heat Calorimeter Method	ASTM D 240 TS 1740
Diesel Types	Density Determination Oscillating U-Tube Method	ASTM D 4052
Diesel Types	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS 1451 EN ISO 3104
Diesel Types	Flash Point Determination Pensky-Martens Closed Cup Method	ASTM D 93
Diesel, Base Oils, Mineral oils, Transformer Isolation Oils	Determination of ASTM Color	ASTM D 1500
Gasoline	Determination of Sulfur (S) Energy Separated X-Ray Fluorescence Spectrometry Method	TS EN ISO 8754
Gasoline	Density Determination Oscillating U-Tube Method	ASTM D 4052
Biodiesel	Determination of Combustion Heat Calorimeter Method	ASTM D 240 TS 1740



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Biodiesel	Determination of Sulfur (S)	TS EN ISO 8754
	Energy Separated X-Ray Fluorescence Spectrometry Method	
Biodiesel	Density Determination	ASTM D 4052
	Oscillating U-Tube Method	
Biodiesel	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	TS 1451 EN ISO 3104
Biodiesel	Determination of Water Amount	TS 6147 EN ISO 12937
	Coulometric Karl Fischer Titration Method	
Biodiesel	Flash Point Determination	ASTM D 93
	Pensky-Martens Closed Cup Method	
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
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:01)

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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 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 ₄ ²⁻) XRF Method	Inhouse Method (DT-Ç09 Rev. No.:01)
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 ₄)	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:01)
Cement and Similar Building Materials	Determination of Free Lime	Inhouse Method (DT-Ç08 Rev No:01)
Cement and Similar Building Materials	Chemical Additives Grinding Facilitator, Freezing Retarder, Cr ⁶⁺ Reducer Infrared Analysis	Inhouse Method (DT-Ç48 Rev No:01) (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

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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 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
Cement and Similar Building Materials	Determination of Total Alkali (Na ₂ O and K ₂ O)	ASTM C 114
Cement and Similar Building Materials	Determination of Moisture	ASTM C 311/C311M
Cement and Similar Building Materials	Determination of Density	ASTM C 188
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




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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 Total Alkali (Na ₂ O and K ₂ O)	ASTM C 311/C311M
Fly Ash or Natural Pozzolan	Determination of Moisture	ASTM C 311/C311M
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
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.:00)
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
Iron Furnace Slag	Determination of Water Soluble Chloride	TS EN ISO 11127-7
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




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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Gypsum and Gypsum Products	Determination of Sulfate (SO ₃) XRF method	Inhouse Method (DT-M08 Rev.00)
Building Lime	Determination of Calcium Oxide (CaO) XRF Spectrometer Method	Inhouse Method (DT-M09 Rev.00)
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-D01 Rev.00)
Soda	Determination of Size	ASTM E 359
Soda	Determination of Loss on Ignition	ASTM E 359 TS 525
Gold Ore, Ore Samples, Geological Samples	Determination of Gold (Au) Pretreatment: Cupellation Analysis: ICP-OES Method	Inhouse Method (DT-M02 Rev.01)
Chrome Ores and Concentrates	Determination of Chromium (Cr) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.01)
Chrome Ores and Concentrates	Determination of Chromium (Cr) Titrimetric Method	Inhouse Method (DT-M04 Rev.01)
Iron Ores and Concentrates	Determination of Iron (Fe) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.01)
Iron Ores and Concentrates	Determination of Iron (Fe) Titrimetric Method	Inhouse Method (DT-M06 Rev.01)




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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Manganese Ores and Concentrates	Determination of Manganese (Mn) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.01)
Manganese Ores and Concentrates	Determination of Manganese (Mn) Titrimetric Method	Inhouse Method (DT-M05 Rev.01)
Copper, Lead and Zinc Sulfur Concentrates	Determination of Moisture Gravimetric Method	TS ISO 10251
Copper Ores and Concentrates	Determination of Copper (Cu) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.01)
Lead Ores and Concentrates	Determination of Lead (Pb) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.01)
Zinc Ores and Concentrates	Determination of Zinc (Zn) XRF Spectrometer Method	Inhouse Method (DT-M03 Rev.01)
Metallic Materials	Optical Emission - Spectral Analysis	ASTM E 415
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	
Metallic Materials	Optical Emission - Spectral Analysis	ASTM E 1086
Stainless steel	Determination of Carbon (C), Silicon (Si), Manganese (Mn), Phosphorus (P), Sulfur (S), Chrome (Cr), Molybdenum (Mo), Nickel (Ni), Copper (Cu), Vanadium (V) Elements	
Metallic Materials	Optical Emission - Spectral Analysis	In-house Method (DT-M12 Rev No: 00) (TS EN 14726/2006)
Aluminum and Aluminum Alloys	Determination of Carbon (C), Phosphorus (P) Sulfur (S), Molybdenum (Mo), Aluminum (Al), Vanadium (V) Elements	

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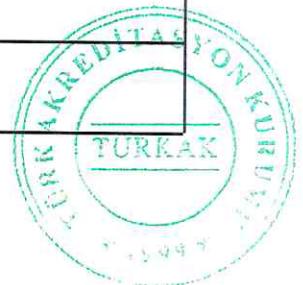
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Metallic Materials	Optical Emission - Spectral Analysis	ASTM E 1999
Pig Iron	Determination of Carbon (C), Silicon (Si), Manganese (Mn), Phosphorus (P) Sulfur (S), Chrome (Cr), Molybdenum (Mo), Nickel (Ni), Copper (Cu), Vanadium (V) Elements	
Metal Alloys	Determination of Silicon (Si), Aluminum (Al)	In-house Method (DT-M13 Rev.00)
FeSi	XRF Spectrometer Method	
Metal Alloys	Determination of Mangan (Mn), Phosphorus (P)	In-house Method (DT-M13 Rev.00)
FeMn	XRF Spectrometer Method	
Metal Alloys	Determination of Silicon (Si), Manganese (Mn), Aluminum (Al)	In-house Method (DT-M13 Rev.00)
FeSiMn	XRF Spectrometer Method	
Metal Alloys	Determination of Molybdenum (Mo), Copper (Cu)	In-house Method (DT-M13 Rev.00)
FeMo	XRF Spectrometer Method	
Metal Alloys	Determination of Magnesium (Mg), Silicon (Si), Aluminum (Al)	In-house Method (DT-M13 Rev.00)
FeSiMg	XRF Spectrometer Method	
Metal Alloys	Determination of Chrome (Cr)	İşletme İçi Metot (DT-M14 Rev.01)
FeCr	XRF Spectrometer Method	
Metal Alloys	Determination of Vanadium (V)	In-house Method (DT-M13 Rev.00)
FeV	XRF Spectrometer Method	
Metal Alloys	Determination of Carbon (C)	In-house Method (DT-M14 Rev.01)
FeMn, FeSiMn, FeCr		
Plastics	Determination of Melting Properties of Semi-Crystal Polymers	TS EN ISO 3146+AC EN ISO 3146 (Metot A)
Fertilizers	Determination of Free Moisture	TS 2832
	Gravimetric Method	
Fertilizers	Determination of Total Nitrogen (N)	AOAC 993.13
	Combustion Method At High Temperature (950 °C)	
Waste Oil	Hand Sampling from Waste Oils and Petroleum Liquids	TS 900-1 EN ISO 3170



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste Oil	Sampling for Insulating Fluids	TS EN 60475
Waste Oil	Determination of Polychlorinated (PCBs) (18, 28, 30, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194, 209) GC-ECD method	TS EN 12766 -1 TS EN 12766 -2
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 (S) Energy Separated X-Ray Fluorescence Spectrometry Method	TS EN ISO 8754 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 Halogens (Cl ⁻ , F ⁻ , Br ⁻) Pretreatment: Calorimeter Method Measurement: Ion Chromatography Method	EPA 5050 TS EN ISO 10304-1
Waste Water	Sampling From Waste Water	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	Determination of Fluoride (F ⁻), Chloride (Cl ⁻), Bromide (Br ⁻), Nitrite / Nitrite Nitrogen, Nitrate / Nitrate Nitrogen, Phosphate / Phosphate Phosphorus, Sulphate Ion Chromatography Method	TS EN ISO 10304-1
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), ICP-OES Method	TS EN ISO 11885
Waste Water	Determination of Mercury (Hg) ICP-OES - By Hydride System	In-house Method (DT-S04 Rev No: 01) (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 Soxhlet Extraction Method	SM 5520 D
Waste Water	Determination of Color Spectrophotometric Method	TS EN ISO 7887 C
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⁻) Spectrometric Method	SM 4500 S ⁻² D

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
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: Spectrometric Method	SM 5530 B SM 5530 D
Waste Water	Determination of Free Chlorine DPD Spectrometric Method	TS EN ISO 7393-2
Waste Water	Determination of Total Chlorine Spektrometric Method	TS EN ISO 7393-2
Waste Water	Determination of Hydrocarbons Soxhlet Extraction Method	SM 5520 D and F
Waste Water	Determination of Chromium (VI) Spectrometric 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	Determination of Total Cyanide (CN ⁻) Pretreatment: Distillation Method Analysis: Spectrometric Method	SM 4500-CN C SM 4500-CN E
Waste Water	Determination of Hydrazine Spectrometric Method	ASTM D1385



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste Water	Determination of Ammonium / Ammonium Nitrogen Pretreatment: Distillation Method Measurement: Spectrometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Waste Water	Surface Active Agent (MBAS) Determination Spectrometric Method	SM 5540 C
Waste Water	Determination of Total Phosphorus Pretreatment: Digestion Method Measurement: Spectrometric Method	SM 4500-P B SM 4500-P E
Waste Water	Total Dissolved Solids (TDS) Determination Gravimetric Method	TS 4111
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	Fluoride, Chloride, Nitrite / Nitrite Nitrogen, Nitrate / Nitrate Nitrogen, Phosphate / Phosphate Phosphorus, Bromide and Sulphate Determination Ion Chromatography Method	TS EN ISO 10304-1
Water	Color Determination Spectrometric Method	TS EN ISO 7887 C

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Chemical Oxygen Demand (COD) Determination Open Reflaks-Titrimetric Method	SM 5220 B
Water	Chromium (VI) Determination Spectrometric 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: Spectrometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Water	Surface Active Agent (MBAS) Determination Spectrometric Method	SM 5540 C
Water	Determination of Hydrazine Spectrometric Method	ASTM D1385
Water	Total Dissolved Solids (TDS) Determination Gravimetric Method	TS 4111
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	Determination of Total Phosphorus Pretreatment: Digestion Method Measurement: Spectrometric Method	SM 4500-P B SM 4500-P E

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Free Chlorine Spectrometric Method	TS EN ISO 7393-2
Water	Determination of Total Chlorine Spectrometric Method	TS EN ISO 7393-2
Water	Determination of Total Cyanide Pretreatment: Distillation Method Analysis: Spectrometric Method	SM 4500-CN C SM 4500-CN E
Sediment	Sampling from Bottom Sediments	TS 9547 ISO 5667-12
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: Ion Chromatography 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 Pretreatment: Solid Extraction Method Measurement: Gravimetric Method	TS EN 12457-4 SM 2540C

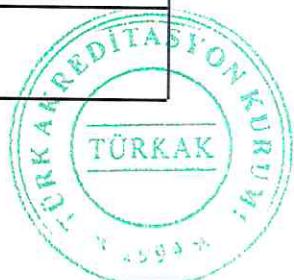


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste	Antimony (Sb), Arsenic (As), Barium (Ba), Mercury (Hg), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Molybdenum (Mo), Nickel (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 12089 EN 13137
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
Soil	Sampling from Surface Soils, Transport and Storage of Samples	TS 9923
Soil	Determination of pH Electrometric Method	TS ISO 10390
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 Soxhlet Extraction Method	SM 5520 E

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Soil	Total Dissolved Matter Pretreatment: Solid Extraction Method Measurement: Gravimetric Method	TS EN 12457-4 SM 2540C
Soil	Fluoride, Chloride, Nitrite / Nitrite Nitrogen, Nitrate / Nitrate Nitrogen, Phosphorus / Phosphate Determination of Phosphorus, Bromide and Sulfate Pretreatment: Solid Extraction Method Measurement: Ion Chromatography Method	TS EN 12457-4 TS EN ISO 10304-1
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Manual determination of mass concentration of particulate matter (20 to 1000 mg / m³)	TS ISO 9096
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions Determination of low range mass concentration of dust (5-50 mg / m³)	TS EN 13284 - 1
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Determination of Gas Flow Rate and Flow Rate in Duct with L and S Type Pitot Tubes	TS ISO 10780*
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Determination of Smoke Density (Smut) The Bacharach Method	TS 9503*
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Determination of Nitrogen Monoxide (NO), Nitrogen Dioxide (NO₂) and Nitrogen Oxide (NO) Emissions Electrochemical Cell Method	EPA CTM 022*
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Determination of Oxygen (O₂) and Carbon Monoxide (CO) Electrochemical Cell Method	TS ISO 12039*
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Determination of Mass Concentration of Sulfur Dioxide (SO₂)	TS ISO 7935*

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Determination of Moisture Content	EPA Method 4
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions -Determination of Moisture by Humidity Probe (≤ 180 °C for the stack temperature)	Inhouse Method (DT - B05 Rev.01)*
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	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
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions- Determination of Dust Emission Amount with Stack Outside Sampling Pretreatment: Gravimetric Method	EPA Method 5

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 STANDART LABORATUVARLAR İŞLETMECİLİĞİ A.Ş.	Accreditation Nr: AB-0011-T Revision Nr: 019 Date: 15.09.2020	
Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions Determination of Dust Emission Amount with Stack Inside Sampling	EPA Method 17
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Sampling of Gaseous Chlorides Defined as HCl and Sampling of Mass Concentration and determination Spectrophotometer	TS EN 1911
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Hydrogen Cyanide (HCN) Sampling and Determination Spectrophotometer	CARB 426
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions -Six-Value Chromium (Cr + 6) Sampling and Determination Spectrophotometer	CARB 425
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Determination of Mass Concentration of Total Organic Carbon in Gas State at Low Concentrations in Flue Gases FID Analyzer	TS EN 12619*
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Formaldehyde Sampling and Determination From Stationary Sources Using Natural Gas Spectrophotometer	EPA Method 323
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Sampling and Determination of Heavy Metals from Stationary Source Emissions 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) ICP-OES	EPA Method 29
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Sampling and Determination of Heavy Metals from Stationary Source Emissions Arsenic (As), Cadmium (Cd), Chrome (Cr), Cobalt (Co), Copper (Cu), Manganese (Mn), Nickel (Ni), Lead (Pb), Antimony (Sb), Talyum (Tl) and Vanadium (V) ICP - OES	TS EN 14385



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Nitrogen Monoxide (NO), Nitrogen Dioxide (NO ₂) and Nitrogen Oxide (NOx) Sampling and Determination Alkaline Permanganate (Ion Chromatography)	EPA Method 7D
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions -Temperature Determination	In-house method (DT-B037 Rev.00)*
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions -Determination of Total Fluorine (F) SPANDS Method	EPA Method 13 A
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Sulfuric Acid (H ₂ SO ₄) Vapor, Sulfur Trioxide (SO ₃), Sulfur Dioxide (SO ₂) Amount Sampling and Determination Titrimetric Method (BariumThorin)	EPA Metot 8
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions -Determination of Hydrogensulfide (H ₂ S) Ratio in Gasoline Steam in Petroleum Refineries Pretreatment: Solution Absorption Analysis: Titrimetric Method	EPA Metot 11
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions - Ammonia Sampling and Determination Ion Selective Electrode	SCAQMD Metot 207.1
Stack Gas (TSE CEN / TS 15675 and TS EN 15259 Complies with the requirements)	Stationary Source Emissions -Phosphoric Acid Sampling and Determination Pretreatment: Solution Absorption Measurement: Spectrophotometric Method	In-house Method DT -B044 / Rev 01 (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) ICP-MS	VDI 2267 Part 2



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Immission (Ambient Air)	Determination of Heavy Metals in the PM10 fraction of suspended particulate matter Arsenic (As), Cadmium (Cd), Nickel (Ni), Lead (Pb) ICP-MS	VDI 2267 Part 1
Acoustic Noise	Level of Environmental Noise (Laeq, LaeqT, LregT, Lday, Lden, Levening, LAFNT, LE, Lafmax, Lcenmax, Lrdn, Lrden) Detection	TS 9315 ISO 1996-1 and TS 9315 ISO 1996-1/T1 TS ISO 1996-2 and TS ISO 1996-2/T1
Industrial Hygiene (Dust)	Determination of Total and Breathable Powder Sampling: Sampling to the filter by pump Analysis: Gravimetric Method	HSE-MDHS 14 / 3
Industrial Hygiene (Noise)	The level of noise that people are exposed to measurement and detection of hearing loss	TS 2607 ISO 1999
Industrial Hygiene (Lighting)	Determination of Lighting Levels / Lighting Level	COHSR-928-1-IPG-039
Industrial Hygiene (Thermal Comfort)	For Medium Thermal Environments Determination of the PMV and PPD Indices, Determining Conditions for Thermal Comfort	TS EN ISO 7730
Industrial Hygiene (Thermal Comfort)	For Hot Environments According to the Index OF WBGT (Wet-Hopper Globe Temperature) The Pressure of Heat on Employees And According to the Indices PMV -PPD Determination of Thermal Comfort Conditions	TS EN ISO 7243 TS EN ISO 7730
Industrial Hygiene Instant Gas Measurement	Oxygen (O ₂) Determination Sampling and Measurement: Electrochemical Cell Method	NIOSH-NMAM 6601




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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Industrial Hygiene (Volatile Organic Compounds)	Determination of Volatile Organic Compounds Benzene, Bromobenzene, n-Butyl Benzene, Ethylbenzene, 4-Isopropyltoluene, Styrene, Toluene, 1,2,3-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, m-Xylene, Naphthalene, trans-1,2-Dicloretene, 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, Trichlorethane, Bromodichloromethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,3-Dichloropropane, Dibromochloromethane, 1,2-Dibromoethane, Tetrachlorethane, 1,1,1,2-Tetrachloroethane, Chlorobenzene, Bromoform, o-Xylene, 1,2,3-Trichloropropane, Isopropylbenzene (Cumen), n-Propylbenzene, 2-Chlortoluene, 4-Chlortoluene, tert-Butylbenzene, sec-Butylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, Hexachlorbutadiene, 1,1,2,2-Tetrachloroethane, p-Xylene Sampling: Sorbent tube with pump Analysis: Gas after solvent desorption Chromatography (GC-FID)	TS ISO 16200-1
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: Sample to the filter by pump taking Analysis: Burning with Perchloric Acid / Nitric Acid post ICP-OES Method	NIOSH-NMAM 7300

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
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 (NOX), Hydrogen (H)) Sampling and Measurement: Detector Tube Instant Measurement	ASTM D 4490 - 96
Industrial Hygiene Non-volatile Inorganic Acids	Determination of non-volatile inorganic acids (H ₃ PO ₄ , H ₂ SO ₄) Sampling: Sampling the filter with the pump Analysis: Ion Chromatography (IC)	NIOSH-NMAM 7908
Industrial Hygiene Volatile Inorganic Acids	Determination of Volatile Inorganic Acids (HCl, HNO ₃) Sampling: Sampling the filter with the pump Analysis: Ion Chromatography (IC)	NIOSH-NMAM 7907
Industrial Hygiene Formaldehyde Analysis	Determination of Formaldehyde Sampling: Pump with filter + impingera sampling Analysis: 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 Instant Gas Measurement	Carbon Monoxide (CO) Detection Sampling and Measurement: Electrochemical Cell Method	NIOSH-NMAM 6604
Industrial Hygiene Alkaline Powders	Determination of Alkaline Dusts (Sodium Hydroxide (NaOH), Potassium Hydroxide (KOH), Lithium Hydroxide (LiOH)) Sampling: Sampling with pump Analysis: Titration	NIOSH-NMAM 7401

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

End of Scope




G. Banu MÜDERRİSOĞLU
Secretary General