



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

ENPAY ENDÜSTRİYEL PAZARLAMA VE YATIRIM A.Ş.

Central Address: KARADENİZLİLER MAH. FAKÜLTE CAD. ENPAY No:147 A/1 BAŞISKELE/KOCAELİ Kocaeli / Türkiye

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-0546-T

Accreditation Date : 19.05.2012

Revision Date / Number : 14.02.2025 / 09


This certificate shall remain in force until **07.11.2028**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
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.


This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

 <p>Türk TS EN ISO/IEC 17025 AB-0546-T</p>	ENPAY ENDÜSTRİYEL PAZARLAMA VE YATIRIM A.Ş.	
	Accreditation Nr: AB-0546-T Revision Nr: 09 Date: 14.02.2025	
Testing Laboratory		
Address : KARADENİZLİLER MAH. FAKÜLTE CAD. ENPAY No:147 A/1 BAŞİSKELE/KOCAELİ Kocaeli / Türkiye	Phone : +90 262 349 5820 Fax : +90 262 349 5830 Email : s.sadic@enpay.com Website :	

Electrical, Electronic and IT Products and Devices		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Pressboard and Presspaper for Electrical Purposes	Pressboard and presspaper for electrical purposes - Part 2: Methods of tests Tensile Strength Elongation Compressibility Conductivity of Aqueous Extract pH of Aqueous Extract Electric Strength	TS EN 60641-2 IEC 60641-2 Clause 7 Clause 7 Clause 10 Clause 15 Clause 16 Clause 20
Laminated Pressboard	Specification for laminated pressboard - Part 2: Methods of test Flexural Strength Apparent Modulus of Elasticity in Flexure Compressibility Electric Strength in Oil Internal Ply Strength Conductivity of Aqueous Extract pH of Aqueous Extract	TS EN 60763 - 2 IEC 60763 - 2 Clause 6.1 Clause 6.2 Clause 7 Clause 8 Clause 9 Clause 16 Clause 17
Cellulosic Electrically Insulating Materials	Measurement of the average viscometric degree of polymerization of new and aged cellulosic electrically insulating materials	TS EN 60450 IEC 60450 ASTM D4243
Cables	High-voltage test techniques (Partial discharge measurements)	TS 2051 EN 60270 IEC 60270
Cellulosic Electrically Insulating Materials	Electric strength of insulating materials - Test methods - Part 1: Tests at power frequencies	TS EN 60243-1 IEC 60243-1
Instrument Transformers	IEEE Standard Requirements for Instrument Transformers Accuracy Test Excitation Test Ratio Correction Curve DC Resistance	IEEE C57.13 Clause 6.3 Clause 6.10 Clause 6.10 Clause 6.10
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Tests for accuracy Test for Ratio Error and Phase Displacement of Measuring Current Transformers Determination of the Instrument Security Factor (FS) of Measuring Current Transformers Test for Composite Error of Class P and PR Protective Current Transformers Tests for accuracy Tests for Ratio Error and Phase Displacement of Measuring Current Transformers Tests for Ratio Error and Phase Displacement of Class P and PR Protective Current Transformers Test for Composite Error of Class P and PR Protective Current Transformers Test for Ratio Error and Phase Displacement for Class TPX, TPY and TPZ Protective Current Transformers Test for Error at Limiting Conditions for Class TPX, TPY and TPZ Protective Current Transformers Test for Turns Ratio Error for Class PX and PXR Protective Current Transformers Determination of the Secondary Winding Resistance (Rct) Determination of the Secondary Loop Time Constant (Ts) -(AC Method) Test for Rated Knee Point e.m.f. (Ek) and Exciting Current at Ek	IEC 61869-2 Clause 7.2.6.201 Clause 7.2.6.202 Clause 7.2.6.203 Clause 7.3.5.201 Clause 7.3.5.202 Clause 7.3.5.203 Clause 7.3.5.204 Clause 7.3.5.205 Clause 7.3.5.206 Clause 7.3.201 Clause 7.3.202 Clause 7.3.203




Accreditation Scope

 TÜRKAK Test TS EN ISO/IEC 17025 AB-0546-T	ENPAY ENDÜSTRİYEL PAZARLAMA VE YATIRIM A.Ş.	
	Accreditation Nr: AB-0546-T Revision Nr: 09 Date: 14.02.2025	
Testing Laboratory		
Address : KARADENİZLİLER MAH. FAKÜLTE CAD. ENPAY No:147 A/1 BAŞISKELE/KOCAELİ Kocaeli / Türkiye		Phone : +90 262 349 5820 Fax : +90 262 349 5830 Email : s.sadic@enpay.com Website :
Magnetic Materials	Magnetic materials - Part 2: Methods of measurement of the magnetic properties of electrical steel sheet and strip by means of an Epstein frame Specific Total Power Measurement (Ps), Magnetic Polarization Measurement (J) - AC Method	IEC 60404-2
Magnetic Materials	Magnetic materials - Part 3: Methods of measurement of the magnetic properties of magnetic sheet and strip by means of a single sheet tester Specific Total Power Measurement (Ps), Magnetic Polarization Measurement (J) - AC Method	IEC 60404-3

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Paper, Carton and Packaging Materials		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Paper and board	Paper and board -- Determination of tensile properties	TS EN ISO 1924-2 ISO 1924-2

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Lubricants		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Insulating Liquids	Determination of Water by Automatic Coulometric Karl Fischer Titration	TS EN 60814 IEC 60814
Insulating Liquids	Determination of The Breakdown Voltage	TS 3989 EN 60156 IEC 60156
Insulating Liquids	Measurement of Relative Permittivity, Dielectric Dissipation Factor ($\tan \delta$) and D.C. Resistivity	TS EN 60247 IEC 60247
Insulating Liquids	Determination of Acidity Automated Potentiometric Titration Method	TS EN 62021-1 IEC 62021-1
Insulating Liquids	Interfacial Tension of Oil Against Water by the Ring Method	ASTM D971
Insulating Liquids	Oil-filled electrical equipment - Sampling of gases and analysis of free and dissolved gases	TS EN 60567 IEC 60567
Insulating Liquids	Insulation Oil Color Measurement	ASTM D1500
Insulating Liquids	Mineral oil-filled electrical equipment- Application of dissolved gas analysis (DGA) to factory tests on electrical equipment	TS EN 61181 IEC 61181
Insulating Liquids	Standard Test Method for Analysis of Dissolved (H_2 , CH_4 , CO , CO_2 , C_2H_4 , C_2H_6 , C_3H_8 , C_3H_6 , C_2H_2) and Free (N_2 , O_2) Gases in Electrical Insulating Oil by Gas Chromatography	ASTM D3612 TS EN 60567 IEC 60567 TS EN 61181 IEC 61181

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