



جمهوری اسلامی ایران  
Islamic Republic of Iran



National Accreditation Center of Iran  
مرکز ملی تایید صلاحیت ایران

گواهینامه تایید صلاحیت آزمایشگاه  
Laboratory Accreditation Certificate

شماره انحصاری  
تایید صلاحیت  
NACI/Lab/۱۳۶۹  
تاریخ و محل صدور اولیه گواهینامه:  
۱۳۹۹/۰۳/۱۳ - تهران  
تاریخ صدور مجدد گواهینامه: ---  
تاریخ خاتمه اعتبار گواهینامه:  
۱۴۰۲/۰۳/۱۱

The National Accreditation Center of Iran (NACI)  
herewith confirms that :

مرکز ملی تایید صلاحیت ایران بدین وسیله تایید می نماید که :

**Pars Electrical Insulations  
Laboratory**

**آزمایشگاه عایقهای الکتریکی پارس**

**Address:** Pars Electrical Insulations, Eshragh (Aliabad)  
Industrial Zone, End of Boulevard Ruzbeh, Zanjan,  
I.R. IRAN  
**Tel:** +98 (24) 32221880  
**Fax :** + 98(24) 32221483  
**Web Site :** [www.pei\\_co.com](http://www.pei_co.com)

**نشانی:** زنجان، شهرک صنعتی اشراق (علی آباد)، انتهای بلوار روزبه،  
شرکت عایقهای الکتریکی پارس  
**تلفن:** ۰۲۴ - ۳۲۲۲۱۸۸۰  
**دورنگار:** ۰۲۴ - ۳۲۲۲۱۴۸۳  
**سایت اینترنتی:** [www.pei\\_co.com](http://www.pei_co.com)

Has fulfilled the **ISIRI-ISO/IEC 17025**.  
And is competent to carry out  Test  Calibration  
services according to accreditation scope are listed in  
9page/s of annex.

الزامات استاندارد ایران - ایزو/آی ای سی ۱۷۰۲۵ را رعایت نموده است.  
و صلاحیت انجام خدمات آزمون  کالیبراسیون  مطابق دامنه کاربردی  
که جزئیات آن در ۹ برگ پیوست آمده است را داراست.

Validity of Accreditation Certificate depends on  
continuity of compliance with the relevant requirements  
and obtaining the approval based on the annual  
surveillance assessment.

حفظ اعتبار در طول دوره منوط به استمرار انطباق با ضوابط مربوطه و اخذ  
تاییدیه در ارزیابی های مراقبتی سالانه است.  
● اعتبار تایید صلاحیت منوط به استمرار انطباق با الزامات مربوطه و اخذ  
تاییدیه در ارزیابی های مراقبتی سالیانه است.

- Validity of Accreditation depends on continuity of compliance with the relevant requirements and obtaining the approval based on the annual surveillance assessment.
- The unique identification number of this Accreditation Certificate and all attachments are the same
- To control the originality of this certificate, visit the website of NACI. ([naciportal.isiri.gov.ir](http://naciportal.isiri.gov.ir))

- شماره انحصاری شناسایی در این گواهینامه تایید صلاحیت و کلیه پیوستها یکسان است.
- جهت کنترل اصالت این گواهینامه به پایگاه اطلاع رسانی مرکز ملی تایید صلاحیت ایران مراجعه نمایید. ([naciportal.isiri.gov.ir](http://naciportal.isiri.gov.ir))

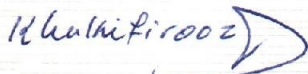
  
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نیره پیروزبخت

رئیس شورای تایید صلاحیت ایران

A.R. Khakifirooz  
NACI PRESIDENT

  
A.R. Khakifirooz

علیرضا خاکی فیروز

رئیس مرکز ملی تایید صلاحیت ایران

  
علیرضا خاکی فیروز



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Identification Number of Accreditation  
NACI/Lab/1369

Initial Accreditation Date and Place: 2020.06.01-Tehran  
Renewal Date : ---  
Expiry Date : 2023.06.01

## Laboratory Accreditation Certificate

### Annex

### Accreditation Scope of Pars Electrical Insulations Laboratory

No.	Product Name	Product Oriented <sup>1</sup>	Test Oriented <sup>2</sup>	Test Title	Applicable Range	Reference
1	Pressboard & Presspaper for Electrical Purposes		✓	Determination of Thickness	---	IEC 60641-2 INSO 16831-2 Clause 5 INSO 151 ISO 534 Clause 9-3-1
				Determination of Apparent Density		IEC 60641-2 INSO 16831-2 Clause 6 INSO 151 ISO 534 Clause 10-3, 10-4
				Determination of Tensile Strength & Elongation		IEC 60641-2 INSO 16831-2 Clause 7 ISIRI 8273-2 ISO 1924 - 2
				Determination of Edge Tearing Resistance		IEC 60641-2 INSO 16831-2 Clause 9 ISIRI/IEC 60554-2 IEC 60554-2 Clause 10
				Determination of Compressibility		IEC 60641-2 INSO 16831-2 Clause 10

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1	Pressboard & Presspaper for Electrical Purposes		✓	Determination of Shrinkage	---	IEC 60641-2 INSO 16831-2 Clause 11
				Determination of Ply Bond Resistance		IEC 60641-2 INSO 16831-2 Clause 12
				Determination of Moisture Content		IEC 60641-2 INSO 16831-2 Clause 13 INSO 559 ISO 287
				Determination of Ash content		IEC 60641-2 INSO 16831-2 Clause 14 ISO 2144
				Determination of Conductivity of Aqueous Extract		IEC 60641-2 INSO 16831-2 Clause 15
				Determination of pH of Aqueous Extract		IEC 60641-2 INSO 16831-2 Clause 16
				Determination of Oil Absorption		IEC 60641-2 INSO 16831-2 Clause 17
				Determination of Electrical Strength (Power frequency method)		IEC 60641-2 INSO 16831-2 Clause 20 INSO 5072-1 IEC 60243-1

  
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No.	Product Name	Product Oriented <sup>1</sup>	Test Oriented <sup>2</sup>	Test Title	Applicable Range	Reference
2	Industrial Rigid Round Laminated Tubes and Rods based on Thermosetting Resins for Electrical Purposes		✓	Determination of Dimensions (Internal diameter, external diameter, wall thickness)	---	IEC 61212-2 INSO 16832-2 Clause 4
				Determination of Flexural Strength Perpendicular to Laminations		IEC61212-2 INSO 16832-2 Clause 5-1 INSO 357 ISO 178
				Determination of Axial Compressive Strength		IEC 61212-2 INSO 16832-2 Clause 5-2 INSO 19605 ISO 604
				Determination of Cohesion between Layers		IEC 61212-2 INSO 16832-2 Clause 5-3
				Determination of Breakdown voltage		IEC 61212-2 INSO 16832-2 Clause 6-1 INSO 5072-1 IEC 60243-1
				Determination of Insulation resistance after immersion in water		IEC 61212.2 INSO 16832-2 Clause 6-2 IEC 62631-3-3

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2	Industrial Rigid Round Laminated Tubes and Rods based on Thermosetting Resins for Electrical Purposes		✓	Determination of Water absorption (Immersion method at water 23°C)	---	IEC 61212-2 INSO 16832-2 Clause 7-2 ISIRI 911 ISO 62 (Method A)
				Determination of density (Immersion method)		IEC 61212-2 INSO 16832-2 Clause 7-3 ISO 1183-1 INSO 7090 (Method A)
3	Laminated Pressboard		✓	Determination of Thickness	---	IEC 60763-2 INSO 16833-2 Clause 5-1
				Determination of Flexural strength		IEC 60763-2 INSO 16833-2 Clause 6-1
				Determination of Apparent modulus of elasticity in flexure		IEC 60763-2 INSO 16833-2 Clause 6-2
				Determination of Compressibility		IEC 60763-2 INSO 16833-2 Clause 7
				Determination of Electrical strength in oil		IEC 60763-2 INSO 16833-2 Clause 8 IEC 60243-1 INSO 5072-1

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No.	Product Name	Product Oriented <sup>1</sup>	Test Oriented <sup>2</sup>	Test Title	Applicable Range	Reference
3	Laminated Pressboard		✓	Determination of internal ply strength, thermal resistance and oil compatibility	---	IEC 60763-2 INSO 16833-2 Clause 9
				Determination of Apparent density		IEC 60763-2 INSO 16833-2 Clause 10
				Determination of Moisture content		IEC 60763-2 INSO 16833-2 Clause 11 ISO 287 INSO 559
				Determination of Shrinkage in air after drying		IEC 60763-2 INSO 16833-2 Clause 12
				Determination of Oil absorption		IEC 60763-2 INSO 16833-2 Clause 13
				Determination of Ash content		IEC 60763-2 INSO 16833-2 Clause 14 ISO 2144
				Determination of Conductivity of aqueous extract		IEC 60763-2 INSO 16833-2 Clause 16
				Determination of pH of aqueous extract		IEC 60763-2 INSO 16833-2 Clause 17

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No.	Product Name	Product Oriented <sup>1</sup>	Test Oriented <sup>2</sup>	Test Title	Applicable Range	Reference
4	Non-impregnated, Densified Laminated Woods for Electrical Purposes		✓	Determination of Thickness		IEC 61061-2 ISIRI 12515-2 Clause 5-1
				Determination of Flexural strength		IEC 61061-2 ISIRI 12515-2 Clause 6-1 ISO 178 INSO 357
				Determination of Apparent modulus of elasticity in flexure		IEC 61061-2 ISIRI 12515-2 Clause 6-2
				Determination of compressibility		IEC 61061-2 ISIRI 12515-2 Clause 6-4
				Determination of Impact strength (Charpy)		IEC 61061-2 ISIRI 12515-2 Clause 6-5 ISO 179 (Method 3C)
				Determination of Shearing strength test for glue line bond		IEC 61061-2 ISIRI 12515-2 Clause 6-6
				Determination of Electrical strength and breakdown voltage		IEC 61061-2 ISIRI 12515-2 Clause 7 IEC 60243-1 INSO 5072-1

  
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No.	Product Name	Product Oriented <sup>1</sup>	Test Oriented <sup>2</sup>	Test Title	Applicable Range	Reference
4	Non-impregnated, Densified Laminated Woods for Electrical Purposes		✓	Determination of Apparent density	---	IEC 61061-2 ISIRI 12515-2 Clause 9-1
				Determination of Moisture content		IEC 61061-2 ISIRI 12515-2 Clause 9-3
				Determination of S'rinkage in air after drying		IEC 61061-2 ISIRI 12515-2 Clause 9-4
				Determination of Oil absorption		IEC 61061-2 ISIRI 12515-2 Clause 9-5
5	Industrial rigid Laminated Sheets based on Thermosetting Resins for Electrical Purposes			Determination of Thickness	---	IEC 60893-2 Clause 4-1
				Determination of Flexural strength		IEC 60893-2 Clause 5-1 ISO 178
				Determination of Apparent modulus of elasticity in flexure		IEC 60893-2 Clause 5-2 ISO 178
				Determination of Compressive strength		IEC 60893-2 Clause 5-3 ISO 604
				Determination of Impact strength (Charpy)		IEC 60893-2 Clause 5-4
				Determination of Shear strength parallel to laminations		IEC 60893-2 Clause 5-5

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No.	Product Name	Product Oriented <sup>1</sup>	Test Oriented <sup>2</sup>	Test Title	Applicable Range	Reference
5	Industrial rigid Laminated Sheets based on Thermosetting Resins for Electrical Purposes		✓	Determination of Tensile strength	---	IEC 60893-2 Clause 5-6 ISO 527-1, 4
				Determination of Electrical strength and breakdown voltage		IEC 60893-2 Clause 6-1 IEC60243-1
				Determination of Insulation resistance after immersion in water		IEC 60893-2 Clause 6-3 IEC 62631-3-3
				Determination of density		IEC 60893-2 Clause 8-1 ISO 1183-1
				Determination of Water absorption		IEC 60893-2 Clause 8-2 ISO 62
6	Cellulosic Papers for Electrical Purposes		✓	Determination of Thickness of single sheets of paper	---	IEC 60554-2 Clause 5-1 ISO 534
				Determination of mass per square metre & Basic Weight		IEC 60554-2 Clause 6 ISO 536
				Determination of Apparent density		IEC 60554-2 Clause 7
				Determination of Tensile Strength & Elongation		IEC 60554-2 Clause 8 ISO 1924-2
				Determination of Edge tearing resistance		IEC 60554-2 Clause 10

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No.	Product Name	Product Oriented <sup>1</sup>	Test Oriented <sup>2</sup>	Test Title	Applicable Range	Reference
6	Cellulosic Papers for Electrical Purposes		✓	Determination of Moisture content	---	IEC 60554-2 Clause 13 ISO 287
				Determination of Ash content		IEC 60554-2 Clause 14 ISO 2144
				Determination of Conductivity of aqueous extract		IEC 60554-2 Clause 15
				Determination of pH of aqueous extract		IEC 60554-2 Clause 16
				Determination of Electrical strength		IEC 60554-2 Clause 24
				Determination of Heat stability: (Determination of degree of polymerization)		IEC 60554-2 Clause 27-3 IEC 60450
7	Cellulosic Papers and Presspaper and Pressboard for Electrical Purposes		✓	Determination of Degree of polymerization	---	IEC 60450

1- **Product Oriented:** Laboratory is accredited to meet all requirements of the product specification standard.

2- **Test Oriented:** Laboratory is accredited for carrying out the tests mentioned in the above table.

  
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