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实验室名称：苏州电器科学研究院股份有限公司
国家电器产品质量检验检测中心

Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
China National Center for Quality Inspection and Test of Electrical
Apparatus Products

No 25XJ0170-S

检验（试验）报告 Test Report

委托单位：萍乡强盛电瓷制造有限公司

Client: Pingxiang Qiangsheng Electric Insulator Manufacturing Co.,Ltd.

产品名称：玻璃交流悬式绝缘子

Name of Product: Glass insulator

产品型号：

Product Type: U70B/127

检验类别：定型试验

Test Category: Prototype test

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Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report	U70B/127 Glass insulator
Contents			
Number	Contents	Page	
1	Cover		
2	Contents	1	
3	General	2	
4	Photos of the samples	3	
5	Test conclusion	4	
6	Routine visual inspection	5	
7	Routine mechanical test	6~8	
8	Verification of the dimensions	9~11	
9	Dry lightning impulse voltage tests	12	
10	Wet power-frequency withstand voltage tests	13	
11	Residual strength test	14~15	
12	Thermal-mechanical performance test	16~17	
13	Mechanical failing load test	18	
14	Radio interference voltage (RIV) test	19~23	
15	Visible corona test	24	
16	Puncture withstand test	25	
17	Verification of the dimensions	26~28	
18	Verification of variation	29~30	
19	Verification of the locking system	31	
20	Temperature cycle test	32~33	
21	Galvanizing test	34	
22	Radio interference voltage (RIV) test	35~38	
23	Mechanical failing load test	39	
24	Thermal shock test	40	
25	Power-frequency puncture withstand test	41	
26	Residual strength test	42~43	
27	Artificial pollution test	44	
28	Annex	45	
29	Outline drawing	46	
30	Test oscillograms	47~89	
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Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report		U70B/127 Glass insulator	
General					
Test category		Prototype test			
Type and name of samples		U70B/127 Glass insulator			
Client		Pingxiang Qiangsheng Electric Insulator Manufacturing Co.,Ltd.			
Address		Luxi industrial Park, Luxi county, Pingxiang City, Jiangxi Province, China			
Manufacturer		Pingxiang Qiangsheng Electric Insulator Manufacturing Co.,Ltd.			
Address		Luxi industrial Park, Luxi county, Pingxiang City, Jiangxi Province, China			
Manufacturing date and serial number		/			
Main technical parameters of samples	Specified mechanical failing load (kN)		70		
	Technical data from client		U70B/127 Glass insulator Test commission form		
QS-G-14 U70B/127 Glass insulator Outline drawing					
Description		Routine test: 25XJ0170-S-#01~#80 Type test: 25XJ0170-S-#01~#60 Sample test: 25XJ0170-S-#61~#80 E1: 25XJ0170-S-#61~#68; E2: 25XJ0170-S-#69~#72; E3: 25XJ0170-S-#73~#80			
Representative of client: Wu Zhe					
Date of samples receiving: Jul. 7, 2025					
Test period: from Jul. 21, 2025 to Aug. 16, 2025					

Suzhou Electrical Apparatus
Science Research Institute
Co., Ltd.

Test Report

U70B/127
Glass insulator

Photos of the samples



Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report		U70B/127 Glass insulator	
Test conclusion					
Client	Pingxiang Qiangsheng Electric Insulator Manufacturing Co.,Ltd.				
Type of samples	U70B/127				
Name of samples	Glass insulator				
Manufacturer	Pingxiang Qiangsheng Electric Insulator Manufacturing Co.,Ltd.				
Test items and results	Routine test	Routine visual inspection			PASS
		Routine mechanical test [specified mechanical failing load: 70kN]			PASS
	Type test	Verification of the dimensions [According to technical data]			PASS
		Dry lightning impulse voltage tests [Between the top and bottom of insulator: 400kV (five strings of insulator) Peak]			PASS
		Wet power-frequency withstand voltage tests [Between the top and bottom of insulator: 160kV (five strings of insulator) 1min]			PASS
		Residual strength test [specified mechanical failing load: 70kN]			PASS
		Thermal-mechanical performance test [4 cycles: 96h]			PASS
		Mechanical failing load test [specified mechanical failing load: 70kN]			PASS
		Radio interference voltage (RIV) test [specified voltage: 10kV, radio interference level $\leq 50\mu\text{V}$]			PASS
		Visible corona test			PASS
		Puncture withstand test [Between the top and bottom of insulator: 130kV]			PASS
		Sample test	Verification of the dimensions [According to technical data]		
	Verification of variation			PASS	
	Verification of the locking system			PASS	
	Temperature cycle test			PASS	
	Galvanizing test [Ontology: local coating thickness $\geq 70\mu\text{m}$ and mean coating thickness $\geq 85\mu\text{m}$]			PASS	
	Radio interference voltage (RIV) test [specified voltage: 10kV, radio interference $\leq 50\mu\text{V}$]			PASS	
	Mechanical failing load test [specified mechanical failing load: 70kN]			PASS	
	Thermal shock test			PASS	
	Power-frequency puncture withstand test [Between the top and bottom of insulator: 130kV]			PASS	
	Residual strength test [specified mechanical failing load: 70kN]			PASS	
	Artificial pollution test [56kg/m^3 110kV]			PASS	
	Test standards	Clauses 12, 13, 14, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 28, 29 and 30 of GB/T1001.1-2021 Insulators for overhead lines with a nominal voltage above 1000V-Part1: Ceramic or glass insulator units for a.c. systems-Definitions, test methods and acceptance criteria			
Clauses 13, 14, 15, 17, 19, 20, 21, 22, 24, 26, 27 and 28 of IEC60383-1:1993 Insulators for overhead lines with a nominal voltage above 1000V - Part1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria					
Clause 5 of GB/T4585-2024 Artificial pollution tests on high-voltage ceramic and glass insulators to be used on a.c. systems					
Clause 5 of IEC 60507:2013 Artificial pollution tests on high-voltage ceramic and glass insulators to be used on a.c. systems					
Test conclusion	<p>The tests are carried out on U70B/127 Glass insulator manufactured by Pingxiang Qiangsheng Electric Insulator Manufacturing Co. Ltd., the test items meet the relevant clauses of above test standards and technical specifications, and the samples have passed the tests.</p> <p>Note: the conclusion is valid only for the inspected and tested samples.</p>				
Compiled by:	陈毅	Proofread by:	丁杰	Checked by:	高伟博
Date:	2025-09-11	Date:	2025-09-11	Date:	2025-09-11
Approved by:	张俊				
Date:	2025-09-11				

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
Routine visual inspection		
Test date: Jul. 21, 2025		
1. Test result:		
No of the samples	Appearance inspection standard of test sample	Test result
25XJ0170-S-#01~#80	The samples with glass insulating parts are not allowed to have defects such as tumors, cracks, burrs, missing parts, open bubbles, creases; and bubbles, trimming, exfoliation, trace, deformation and other deficiencies that significantly exceed the quality requirements range.	Meet the requirements
		
Note: /		

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator
Routine mechanical test			
Test date: Jul. 21, 2025			
1. Test result:			
No of the samples	Test load (kN)	Duration (s)	Whether damaged
25XJ0170-S-#01	35.4	3	No
25XJ0170-S-#02	35.3		
25XJ0170-S-#03	35.3		
25XJ0170-S-#04	35.3		
25XJ0170-S-#05	35.3		
25XJ0170-S-#06	35.2		
25XJ0170-S-#07	35.3		
25XJ0170-S-#08	35.3		
25XJ0170-S-#09	35.3		
25XJ0170-S-#10	35.3		
25XJ0170-S-#11	35.3		
25XJ0170-S-#12	35.3		
25XJ0170-S-#13	35.2		
25XJ0170-S-#14	35.3		
25XJ0170-S-#15	35.2		
25XJ0170-S-#16	35.3		
25XJ0170-S-#17	35.3		
25XJ0170-S-#18	35.3		
25XJ0170-S-#19	35.3		
25XJ0170-S-#20	35.3		
25XJ0170-S-#21	35.3		
25XJ0170-S-#22	35.3		
25XJ0170-S-#23	35.2		
25XJ0170-S-#24	35.3		
25XJ0170-S-#25	35.3		
25XJ0170-S-#26	35.3		
25XJ0170-S-#27	35.3		
25XJ0170-S-#28	35.3		
25XJ0170-S-#29	35.2		
25XJ0170-S-#30	35.2		
25XJ0170-S-#31	35.3		
25XJ0170-S-#32	35.2		
25XJ0170-S-#33	35.2		

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator	
Routine mechanical test (continued)			
Test date: Jul. 21, 2025			
1. Test result:			
No of the samples	Test load (kN)	Duration (s)	Whether damaged
25XJ0170-S-#34	35.3		
25XJ0170-S-#35	35.3		
25XJ0170-S-#36	35.3		
25XJ0170-S-#37	35.3		
25XJ0170-S-#38	35.3		
25XJ0170-S-#39	35.3		
25XJ0170-S-#40	35.3		
25XJ0170-S-#41	35.3		
25XJ0170-S-#42	35.3		
25XJ0170-S-#43	35.3		
25XJ0170-S-#44	35.2		
25XJ0170-S-#45	35.3		
25XJ0170-S-#46	35.3		
25XJ0170-S-#47	35.3		
25XJ0170-S-#48	35.3		
25XJ0170-S-#49	35.3		
25XJ0170-S-#50	35.3	3	No
25XJ0170-S-#51	35.2		
25XJ0170-S-#52	35.3		
25XJ0170-S-#53	35.3		
25XJ0170-S-#54	35.2		
25XJ0170-S-#55	35.3		
25XJ0170-S-#56	35.3		
25XJ0170-S-#57	35.3		
25XJ0170-S-#58	35.2		
25XJ0170-S-#59	35.3		
25XJ0170-S-#60	35.3		
25XJ0170-S-#61	35.3		
25XJ0170-S-#62	35.4		
25XJ0170-S-#63	35.3		
25XJ0170-S-#64	35.2		
25XJ0170-S-#65	35.3		
25XJ0170-S-#66	35.3		

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator	
Routine mechanical test (continued)			
Test date: Jul. 21, 2025			
1. Test result:			
No of the samples	Test load (kN)	Duration (s)	Whether damaged
25XJ0170-S-#67	35.3	3	No
25XJ0170-S-#68	35.3		
25XJ0170-S-#69	35.2		
25XJ0170-S-#70	35.3		
25XJ0170-S-#71	35.3		
25XJ0170-S-#72	35.3		
25XJ0170-S-#73	35.3		
25XJ0170-S-#74	35.3		
25XJ0170-S-#75	35.3		
25XJ0170-S-#76	35.3		
25XJ0170-S-#77	35.3		
25XJ0170-S-#78	35.3		
25XJ0170-S-#79	35.2		
25XJ0170-S-#80	35.3		

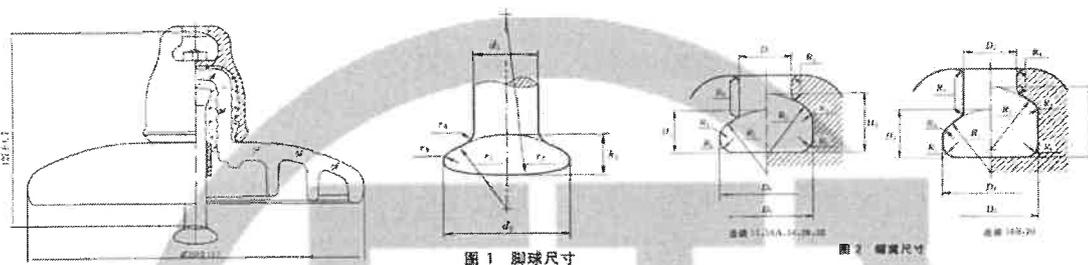
Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Verification of the dimensions

Test date: Jul. 21, 2025

1. Test requirements:

The dimensions of the test insulators shall be checked in accordance with the relevant drawings. The tolerance provided by the drawing shall be valid. If there is no tolerance provided by drawing, see the following diagram:



Unit: mm

2. Test results:

No of the samples	d ₁ (mm) 17 ⁰ _{-1.2}	d ₂ (mm) 33.3 ⁰ _{-1.5}	h ₁ (mm) 13.4 ⁰ _{-1.3}	D ₁ (mm) 19.2 ^{+1.6} ₀	D ₂ (mm) 34.5±2.87	D ₃ (mm) 34.5±2.87
25XJ0170-S-#01	16.5	32.6	12.4	20.2	34.6	34.5
25XJ0170-S-#02	16.4	32.5	12.4	19.9	34.3	34.6
25XJ0170-S-#03	16.7	32.5	12.6	19.9	34.4	34.5
25XJ0170-S-#04	16.5	32.6	12.6	19.6	34.5	34.2
25XJ0170-S-#05	16.3	32.4	12.5	19.8	34.5	34.4
25XJ0170-S-#06	16.4	32.6	12.7	19.8	34.6	34.6
25XJ0170-S-#07	16.3	32.6	12.4	19.7	34.3	34.3
25XJ0170-S-#08	16.5	32.5	12.3	19.8	34.3	34.6
25XJ0170-S-#09	16.6	32.2	12.5	19.9	34.4	34.8
25XJ0170-S-#10	16.7	32.6	12.6	20.0	34.6	34.7

Note: A tolerance of ±(0.04d+1.5)mm when d≤300mm and for all lengths of creepage distance, or ±(0.025d+6)mm when d>300mm shall be allowed on all dimensions for which specific tolerances are not requested or given.

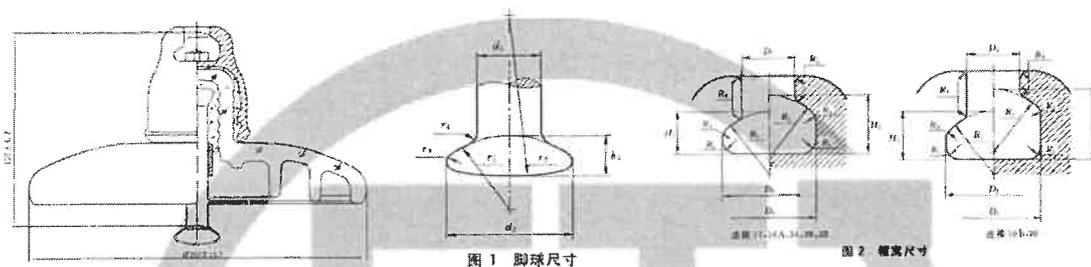
Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Verification of the dimensions (continued)

Test date: Jul. 21, 2025

1. Test requirements:

The dimensions of the test insulators shall be checked in accordance with the relevant drawings. The tolerance provided by the drawing shall be valid. If there is no tolerance provided by drawing, see the following diagram:



Unit: mm

2. Test results:

No of the samples	H ₁ (mm) 14.5 ^{-1.6} ₀	H ₂ (mm) 20.5±2.32	Thickness of locking device T ^b (mm) 5.5 ^{-0.2} ₀	H (mm) 127±4.7	D (mm) 255±11.7	Creepage distance (mm) 320±14.3
25XJ0170-S-#01	15.4	20.5	5.62	127	256	325
25XJ0170-S-#02	15.6	20.3	5.59	127	255	326
25XJ0170-S-#03	15.2	20.4	5.58	128	256	323
25XJ0170-S-#04	15.3	20.7	5.63	127	255	326
25XJ0170-S-#05	15.6	20.4	5.62	127	256	329
25XJ0170-S-#06	15.1	20.5	5.60	127	256	323
25XJ0170-S-#07	15.4	20.6	5.57	128	256	324
25XJ0170-S-#08	15.6	20.4	5.54	127	255	325
25XJ0170-S-#09	15.6	20.7	5.59	127	256	327
25XJ0170-S-#10	15.3	20.5	5.63	128	256	325

Note: A tolerance of ±(0.04d+1.5)mm when d≤300mm and for all lengths of creepage distance, or ±(0.025d+6)mm when d>300mm shall be allowed on all dimensions for which specific tolerances are not requested or given.

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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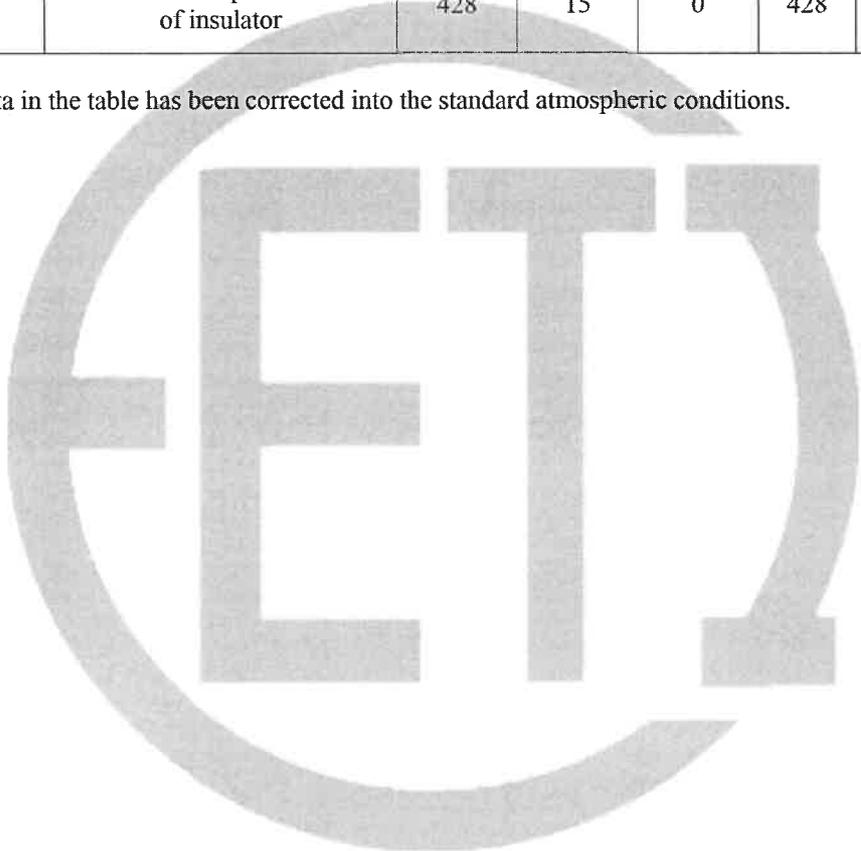
Verification of the dimensions (continued)

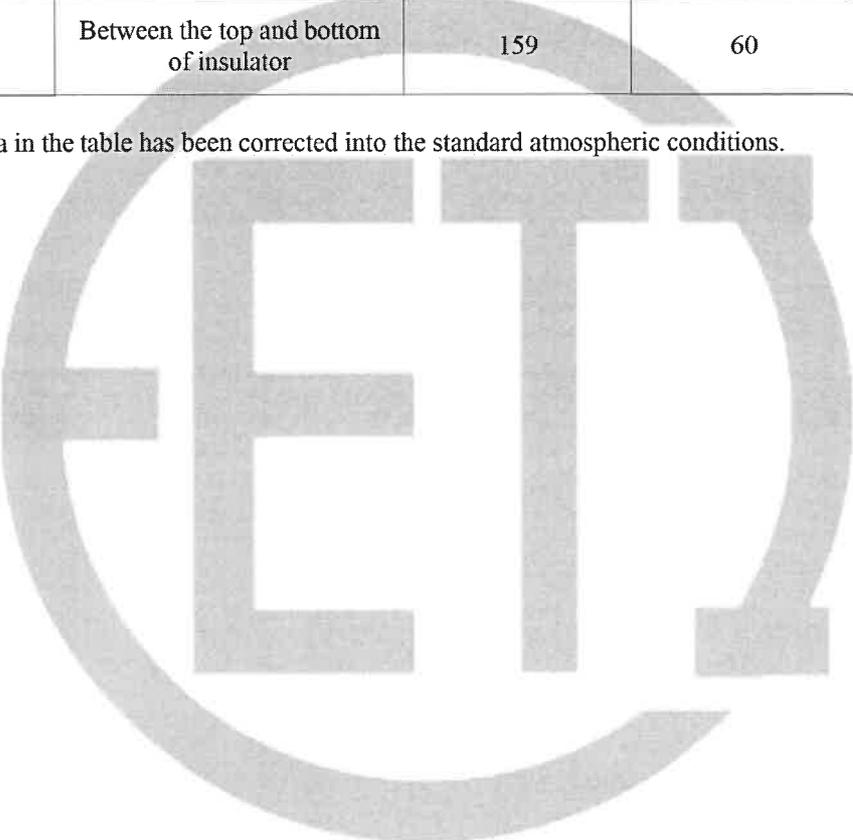
Test date: Jul. 21, 2025

2. Test result:

No of the samples	Gauge inspection			
	Socket		Ball	
	"GO" gauge	"NOT GO" gauge	"GO" gauge	"NOT GO" gauge
25XJ0170-S-#01	GO	NOT GO	GO	NOT GO
25XJ0170-S-#02	GO	NOT GO	GO	NOT GO
25XJ0170-S-#03	GO	NOT GO	GO	NOT GO
25XJ0170-S-#04	GO	NOT GO	GO	NOT GO
25XJ0170-S-#05	GO	NOT GO	GO	NOT GO
25XJ0170-S-#06	GO	NOT GO	GO	NOT GO
25XJ0170-S-#07	GO	NOT GO	GO	NOT GO
25XJ0170-S-#08	GO	NOT GO	GO	NOT GO
25XJ0170-S-#09	GO	NOT GO	GO	NOT GO
25XJ0170-S-#10	GO	NOT GO	GO	NOT GO

Note: /

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report			U70B/127 Glass insulator			
Dry lightning impulse voltage tests							
Test date: Jul. 22, 2025							
No of the samples	Test part	Positive polarity			Negative polarity		
		Voltage (kV)	Applied times	Puncture times	Voltage (kV)	Applied times	Puncture times
25XJ0170-S- #11~#15	Between the top and bottom of insulator	428	15	0	428	15	0
<p>Note: the data in the table has been corrected into the standard atmospheric conditions.</p> 							
Atmospheric conditions of test zone	P= 101.0kPa; Environmental temperature t= 29.9℃; Relative humidity: 70% Atmospheric correction factor Kt=1.0688 Altitude correction factor Ka= /						

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator	
Wet power-frequency withstand voltage tests				
Test date: Jul. 22, 2025				
Average sprinkling rate	Horizontal component: 1.46mm/min Vertical component: 1.52mm/min	Conductance ratio: 101.5 μ S/cm	Water temperature: 29.3 $^{\circ}$ C	
No of the samples	Test part	Power-frequency withstand voltage (wet)		
		Voltage (kV)	Applied times (s)	Puncture times
25XJ0170-S- #11~#15	Between the top and bottom of insulator	159	60	0
<p>Note: the data in the table has been corrected into the standard atmospheric conditions.</p> 				
Atmospheric conditions of test zone	P= 101.0kPa; Environmental temperature t= 29.9 $^{\circ}$ C; Relative humidity: 70% Atmospheric correction factor Kt=0.9946 Altitude correction factor Ka= /			

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report			U70B/127 Glass insulator		
Residual strength test							
Test date: Jul. 30, 2025							
1. Temperature cycle test							
No of the samples	Cycles	Hot water temperature (°C)	Duration in hot water (min)	Reversed times from hot water to cold water (s)	Cold water temperature (°C)	Duration in cold water (min)	Whether visible damage
25XJ0170-S- #21~#45	The first cycle	80.9	15	25	10.5	15	No
	The second cycle	80.6	15	24	10.2	15	No
	The third cycle	80.5	15	24	10.3	15	No
2. Status of the sample during the test							
No of the samples	50% of the SFL (kN)	Time from 50% of the SFL to specified mechanical failing load (s)	Failing load (kN)	Broken condition			
25XJ0170-S-#21	35.0	56	101	Metal fitting separated			
25XJ0170-S-#22	35.0	56	90.7	Metal fitting separated			
25XJ0170-S-#23	35.0	56	93.2	Metal fitting separated			
25XJ0170-S-#24	35.0	56	70.2	Metal fitting separated			
25XJ0170-S-#25	35.0	56	86.0	Metal fitting separated			
25XJ0170-S-#26	35.0	56	92.3	Metal fitting separated			
25XJ0170-S-#27	35.0	56	83.6	Metal fitting separated			
25XJ0170-S-#28	35.0	56	77.1	Metal fitting separated			
25XJ0170-S-#29	35.0	56	89.8	Metal fitting separated			
25XJ0170-S-#30	35.0	56	99.4	Metal fitting separated			
25XJ0170-S-#31	35.0	56	79.3	Metal fitting separated			
25XJ0170-S-#32	35.0	56	70.6	Metal fitting separated			
25XJ0170-S-#33	35.0	56	92.0	Metal fitting separated			
Atmospheric conditions of test zone	P=99.1kPa; Environmental temperature t=26.3°C; Relative humidity: 85% Atmospheric correction factor Kt=/ Altitude correction factor Ka=/						

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator	
Residual strength test (continued)				
Test date: Jul. 30, 2025				
No of the samples	50% of the SFL (kN)	Time from 50% of the SFL to specified mechanical failing load (s)	Failing load (kN)	Broken condition
25XJ0170-S-#34	35.0	56	77.9	Metal fitting separated
25XJ0170-S-#35	35.0	56	85.7	Metal fitting separated
25XJ0170-S-#36	35.0	56	90.6	Metal fitting separated
25XJ0170-S-#37	35.0	56	88.0	Metal fitting separated
25XJ0170-S-#38	35.0	56	88.0	Metal fitting separated
25XJ0170-S-#39	35.0	56	78.4	Metal fitting separated
25XJ0170-S-#40	35.0	56	92.2	Metal fitting separated
25XJ0170-S-#41	35.0	56	77.7	Metal fitting separated
25XJ0170-S-#42	35.0	56	94.6	Metal fitting separated
25XJ0170-S-#43	35.0	56	88.0	Metal fitting separated
25XJ0170-S-#44	35.0	56	87.5	Metal fitting separated
25XJ0170-S-#45	35.0	56	112	Metal fitting separated
3. Acceptance criteria:				
<p>The number of samples broken or separated is greater than 10, separated load $\bar{X}_s > 0.65SFL + 1.645\sigma$, and each $X_b \geq SFL$. The test is passed.</p>				
Atmospheric conditions of test zone	P=99.1kPa; Environmental temperature t=26.3°C; Relative humidity: 85% Atmospheric correction factor Kt= / Altitude correction factor Ka= /			

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report				U70B/127 Glass insulator		
Thermal-mechanical performance test							
Test date: from Jul. 24, 2025 to Jul. 28, 2025							
1. Test result:							
No of the samples	Minimum temperature (°C)	Maximum temperature (°C)	Duration of minimum and maximum temperature (h)	Duration of each cycle (h)	Cycles	Test load (kN)	Broken or not
25XJ0170-S-#01	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#02	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#03	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#04	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#05	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#06	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#07	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#08	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#09	-40.1	40.1	8	24	4	42.8	No
25XJ0170-S-#10	-40.1	40.1	8	24	4	42.8	No

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator	
Thermal-mechanical performance test (continued) (Mechanical failing load test)				
Test date: Jul. 28, 2025				
1. Test requirements:				
<p>Test method: the string insulator shall be subjected to tensile load between meatl fittings.</p> <p>The tensile load shall be increased from zero, rapidly but smoothly, up to approximately 75% of the specified mechanical failing load and shall then be gradually increased at a rate of increase between 100% and 35% of the specified mechanical failing load per minute (amount to specified mechanical failing load reached within 15s to 45s) until the failing load defined in clause 3 is reached and the value recorded.</p> <p>Specified mechanical failing load (SFL): 70kN.</p> <p>Acceptance criteria: $\bar{X}_T \geq SFL + C_0 \sigma_T$, figure out acceptance criteria by means of this formula. C_0: 2.0</p>				
2. Test result:				
No of the samples	75% of the SFL (kN)	Time from 75% of the SFL to 100% of the SFL (s)	Failing load (kN)	Broken condition
25XJ0170-S-#01	52.5	21	138	Socket broken
25XJ0170-S-#02	52.5	21	139	Socket broken
25XJ0170-S-#03	52.5	22	112	Socket broken
25XJ0170-S-#04	52.5	21	135	Socket broken
25XJ0170-S-#05	52.5	22	124	Socket broken
25XJ0170-S-#06	52.5	22	136	Socket broken
25XJ0170-S-#07	52.5	21	127	Socket broken
25XJ0170-S-#08	52.5	21	133	Socket broken
25XJ0170-S-#09	52.5	22	122	Socket broken
25XJ0170-S-#10	52.5	21	135	Socket broken
3. Acceptance criteria:				
Specified mechanical failing load SFL (kN)	Mean value \bar{X}_T (kN)	Acceptance constant C_0	Standard deviation σ_T	
70	130	2.0	8.5	
According to standard formula: $\bar{X}_T \geq SFL + C_0 \sigma_T$; 130 (kN) > 87 (kN), then the test is passed.				

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator	
Mechanical failing load test				
Test date: Jul. 28, 2025				
1. Test requirements:				
<p>Test method: the string insulator shall be subjected to tensile load between meatl fittings.</p> <p>The tensile load shall be increased from zero, rapidly but smoothly, up to approximately 75% of the specified mechanical failing load and shall then be gradually increased at a rate of increase between 100% and 35% of the specified mechanical failing load per minute (amount to specified mechanical failing load reached within 15s to 45s) until the failing load defined in clause 3 is reached and the value recorded.</p> <p>Specified mechanical failing load (SFL): 70kN.</p> <p>Acceptance criteria: $\bar{X}_T \geq SFL + C_0 \sigma_T$, figure out acceptance criteria by means of this formula. $C_0: 2.0$</p>				
2. Test result:				
No of the samples	75% of the SFL (kN)	Time from 75% of the SFL to 100% of the SFL (s)	Failing load (kN)	Broken condition
25XJ0170-S-#11	52.5	20	113	Socket broken
25XJ0170-S-#12	52.5	21	135	Socket broken
25XJ0170-S-#13	52.5	21	120	Socket broken
25XJ0170-S-#14	52.5	20	127	Socket broken
25XJ0170-S-#15	52.5	20	132	Socket broken
25XJ0170-S-#16	52.5	21	141	Socket broken
25XJ0170-S-#17	52.5	21	143	Socket broken
25XJ0170-S-#18	52.5	20	134	Socket broken
25XJ0170-S-#19	52.5	21	134	Socket broken
25XJ0170-S-#20	52.5	20	141	Socket broken
3. Acceptance criteria:				
Specified mechanical failing load SFL (kN)	Mean value \bar{X}_T (kN)	Acceptance constant C_0	Standard deviation σ_T	
70	132	2.0	9.57	
According to standard formula: $\bar{X}_T \geq SFL + C_0 \sigma_T$; 132 (kN) > 89.1 (kN), then the test is passed.				

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report		U70B/127 Glass insulator				
Radio interference voltage (RIV) test								
Test date: Jul. 25, 2025								
No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)	
	Required value (kV)	Measured value (kV)	Duration (min)					
25XJ0170-S #46	1.1 U_r	11.0	5	4.3	31.7	38.4	≤ 50	
	0.3 U_r	3.0	Decrease in steps	4.0	31.4	37.1	≤ 50	
	1.1 U_r	11.0	1	4.1	31.5	37.5	≤ 50	
	1.0 U_r	10.0	Decrease in steps	4.0	31.4	37.1	≤ 50	
	0.9 U_r	9.1		4.0	31.4	37.1	≤ 50	
	0.8 U_r	8.0		4.0	31.4	37.1	≤ 50	
	0.7 U_r	7.0		4.0	31.4	37.1	≤ 50	
	0.6 U_r	6.0		4.0	31.4	37.1	≤ 50	
	0.5 U_r	5.0		3.9	31.3	36.6	≤ 50	
	0.4 U_r	4.0		4.0	31.4	37.1	≤ 50	
	0.3 U_r	3.0		3.9	31.3	36.6	≤ 50	
	State of sample before test: /. Background (dB): 16.7, B_1 (dB)=55.2, B_2 (dB)=61.0; Loop attenuation coefficient B_c (dB)= $B_2-B_1=5.8$ Resistance network attenuation coefficient $B_R=20\log^{300/R1/2}=21.58$ $B=B_m+B_c+B_R$							
Atmospheric conditions of test zone	P=100.5kPa; Environmental temperature t=28.5°C; Relative humidity: 55% Atmospheric correction factor $K_t= /$ Altitude correction factor $K_a= /$							

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Radio interference voltage (RIV) test (continued)

Test date: Jul. 25, 2025

No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)
	Required value (kV)	Measured value (kV)	Duration (min)				
25XJ0170-S -#47	1.1 U_r	11.0	5	4.4	31.8	38.8	≤ 50
	0.3 U_r	3.0	Decrease in steps	4.0	31.4	37.1	≤ 50
	1.1 U_r	11.0	1	4.2	31.6	37.9	≤ 50
	1.0 U_r	10.0	Decrease in steps	4.1	31.5	37.5	≤ 50
	0.9 U_r	9.1		4.0	31.4	37.1	≤ 50
	0.8 U_r	8.0		4.0	31.4	37.1	≤ 50
	0.7 U_r	7.0		3.9	31.3	37.6	≤ 50
	0.6 U_r	6.0		4.0	31.4	37.1	≤ 50
	0.5 U_r	5.0		4.0	31.4	36.1	≤ 50
	0.4 U_r	4.0		3.9	31.3	37.6	≤ 50
	0.3 U_r	3.0		3.9	31.3	36.6	≤ 50

State of sample before test: /.

Background (dB): 16.7, B_1 (dB)=55.2, B_2 (dB)=61.0; Loop attenuation coefficient B_c (dB)= $B_2 - B_1 = 5.8$

Resistance network attenuation coefficient $B_R = 20 \log^{300/R^{1/2}} = 21.58$

$B = B_m + B_c + B_R$

Atmospheric conditions of test zone	P=100.5kPa; Environmental temperature t=28.5°C; Relative humidity: 55% Atmospheric correction factor $K_t = /$ Altitude correction factor $K_a = /$
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Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report			U70B/127 Glass insulator			
Radio interference voltage (RIV) test (continued)								
Test date: Jul. 25, 2025								
No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)	
25XJ0170-S -#48	Required value (kV)	Measured value (kV)	Duration (min)					
	1.1U _r	11.0	5	4.3	31.7	38.4	≤50	
	0.3U _r	3.0	Decrease in steps	4.0	31.4	37.1	≤50	
	1.1U _r	11.0	1	4.3	31.7	38.4	≤50	
	1.0U _r	10.0	Decrease in steps	4.2	31.6	37.9	≤50	
	0.9U _r	9.1		4.2	31.6	37.9	≤50	
	0.8U _r	8.0		4.1	31.5	37.5	≤50	
	0.7U _r	7.0		4.0	31.4	37.1	≤50	
	0.6U _r	6.0		4.0	31.4	37.1	≤50	
	0.5U _r	5.0		4.0	31.4	36.1	≤50	
	0.4U _r	4.0		4.0	31.4	37.1	≤50	
	0.3U _r	3.0		3.9	31.3	36.6	≤50	
<p>State of sample before test: /.</p> <p>Background (dB): 16.7, B₁ (dB)=55.2, B₂ (dB)=61.0; Loop attenuation coefficient B_c (dB)=B₂-B₁=5.8</p> <p>Resistance network attenuation coefficient B_R=20log^{300/R_{1/2}}=21.58</p> <p>B=B_m+B_c+B_R</p>								
Atmospheric conditions of test zone	P=100.5kPa; Environmental temperature t=28.5°C; Relative humidity: 55% Atmospheric correction factor K _t =/ Altitude correction factor K _a =/							

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report			U70B/127 Glass insulator			
Radio interference voltage (RIV) test (continued)								
Test date: Jul. 25, 2025								
No of the samples	Test voltage			Meter reading B _m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)	
	Required value (kV)	Measured value (kV)	Duration (min)					
25XJ0170-S -#49	1.1U _r	11.0	5	4.4	31.8	38.8	≤50	
	0.3U _r	3.0	Decrease in steps	4.1	31.5	37.5	≤50	
	1.1U _r	11.0	1	4.3	31.7	38.4	≤50	
	1.0U _r	10.1	Decrease in steps	4.2	31.6	37.9	≤50	
	0.9U _r	9.0		4.1	31.5	37.5	≤50	
	0.8U _r	8.0		4.1	31.5	37.5	≤50	
	0.7U _r	7.0		4.0	31.4	37.1	≤50	
	0.6U _r	6.0		4.1	31.5	37.5	≤50	
	0.5U _r	5.0		4.0	31.4	36.1	≤50	
	0.4U _r	4.0		4.1	31.5	37.5	≤50	
	0.3U _r	3.0		3.9	31.3	36.6	≤50	
	State of sample before test: /. Background (dB): 16.7, B ₁ (dB)=55.2, B ₂ (dB)=61.0; Loop attenuation coefficient B _c (dB)=B ₂ -B ₁ =5.8 Resistance network attenuation coefficient B _R =20log ^{300/R1/2} =21.58 B=B _m +B _c +B _R							
Atmospheric conditions of test zone	P=100.5kPa; Environmental temperature t=28.5°C; Relative humidity: 55% Atmospheric correction factor K _t = / Altitude correction factor K _a = /							

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Radio interference voltage (RIV) test (continued)

Test date: Jul. 25, 2025

No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)
	Required value (kV)	Measured value (kV)	Duration (min)				
25XJ0170-S #50	1.1U _r	11.0	5	4.5	31.9	39.3	≤50
	0.3U _r	3.0	Decrease in steps	3.9	31.3	36.6	≤50
	1.1U _r	11.0	1	4.5	31.9	39.3	≤50
	1.0U _r	10.0	Decrease in steps	4.4	31.8	38.8	≤50
	0.9U _r	9.0		4.3	31.7	38.4	≤50
	0.8U _r	8.0		4.1	31.5	37.5	≤50
	0.7U _r	7.0		4.1	31.5	37.5	≤50
	0.6U _r	6.0		4.0	31.4	37.1	≤50
	0.5U _r	5.0		4.1	31.5	37.5	≤50
	0.4U _r	4.0		4.0	31.4	37.1	≤50
	0.3U _r	3.0		4.0	31.4	37.1	≤50

State of sample before test: /.

Background (dB): 16.7, B_1 (dB)=55.2, B_2 (dB)=61.0; Loop attenuation coefficient B_c (dB)= $B_2-B_1=5.8$

Resistance network attenuation coefficient $B_R=20\log^{300/R1/2}=21.58$

$B=B_m+B_c+B_R$

Atmospheric conditions of test zone	<p>P=100.5kPa; Environmental temperature t=28.5°C; Relative humidity: 55%</p> <p>Atmospheric correction factor Kt= / Altitude correction factor Ka= /</p>
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Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report			U70B/127 Glass insulator	
Visible corona test						
Test date: Jul. 25, 2025						
Test requirements:						
<p>The corona test shall be performed in a fully-darkened room with naked eyes or telescope. Observers usually require a minimum of 15 min to be conditioned to the dark. Ultraviolet imaging equipment shall be used to perform visible corona test in daytime with condition of non-darkness. Voltage shall be applied and increased in steps until corona producing. The voltage shall be held for a minimum of 5 min and this value shall be recorded as corona initial voltage. Then the voltage shall be reduced in steps until corona extinction, and then it shall be held for a minimum of 5 min and this value shall be recorded as corona extinction voltage. The increasing-reducing procedure above should be taken for three times. The average values of three cycles are corona initial voltage and corona extinction voltage respectively.</p> <p>Steel foot: 18kV; Steel cap: 22kV</p>						
Test results:						
No of the samples		Test voltage	The first time	The second time	The third time	Average value
25XJ0170-S-#46	Steel foot	Corona initial voltage (kV)	23.8	23.3	23.7	23.6
		Corona extinction voltage (kV)	22.3	22.7	22.6	22.5
	Steel cap	Corona initial voltage (kV)	27.7	27.6	27.3	27.5
		Corona extinction voltage (kV)	25.3	25.7	25.5	25.5
25XJ0170-S-#47	Steel foot	Corona initial voltage (kV)	24.5	24.3	23.9	24.2
		Corona extinction voltage (kV)	22.5	22.4	2.8	22.6
	Steel cap	Corona initial voltage (kV)	26.8	27.2	27.5	27.2
		Corona extinction voltage (kV)	25.7	25.8	25.6	25.7
25XJ0170-S-#48	Steel foot	Corona initial voltage (kV)	24.7	24.5	24.9	24.7
		Corona extinction voltage (kV)	22.6	22.8	22.8	22.7
	Steel cap	Corona initial voltage (kV)	27.8	27.7	27.9	27.8
		Corona extinction voltage (kV)	25.8	25.9	25.7	25.8
25XJ0170-S-#49	Steel foot	Corona initial voltage (kV)	24.2	24.5	24.1	24.3
		Corona extinction voltage (kV)	22.2	22.1	22.5	22.3
	Steel cap	Corona initial voltage (kV)	27.0	27.3	27.5	27.3
		Corona extinction voltage (kV)	25.3	25.1	25.6	25.3
25XJ0170-S-#50	Steel foot	Corona initial voltage (kV)	24.5	24.7	24.6	24.6
		Corona extinction voltage (kV)	22.5	22.4	22.2	22.4
	Steel cap	Corona initial voltage (kV)	27.3	27.3	27.6	27.4
		Corona extinction voltage (kV)	25.6	25.3	25.5	25.5
Atmospheric conditions of test zone		P=100.5kPa; Environmental temperature t=28.5°C; Relative humidity: 55% Atmospheric correction factor Kt= / Altitude correction factor Ka= /				

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report			U70B/127 Glass insulator		
Puncture withstand test						
Test date: Jul. 22, 2025						
1. Test result:						
No of the samples	Applied part	The resistivity of insulating oil ($\Omega \cdot m$)	Test voltage (kV)	Waveform	Frequency (Hz)	Test result
25XJ0170-S-#51	Between the top and bottom of insulator	2.8×10^7	130	Sine	50	Pass
25XJ0170-S-#52			131	Sine	50	Pass
25XJ0170-S-#53			130	Sine	50	Pass
25XJ0170-S-#54			130	Sine	50	Pass
25XJ0170-S-#55			131	Sine	50	Pass
25XJ0170-S-#56			131	Sine	50	Pass
25XJ0170-S-#57			130	Sine	50	Pass
25XJ0170-S-#58			131	Sine	50	Pass
25XJ0170-S-#59			131	Sine	50	Pass
25XJ0170-S-#60			131	Sine	50	Pass
Atmospheric conditions of test zone			P=101.0kPa; Environmental temperature $t=29.9^{\circ}C$; Relative humidity: 70% Atmospheric correction factor $K_t= /$ Altitude correction factor $K_a= /$			

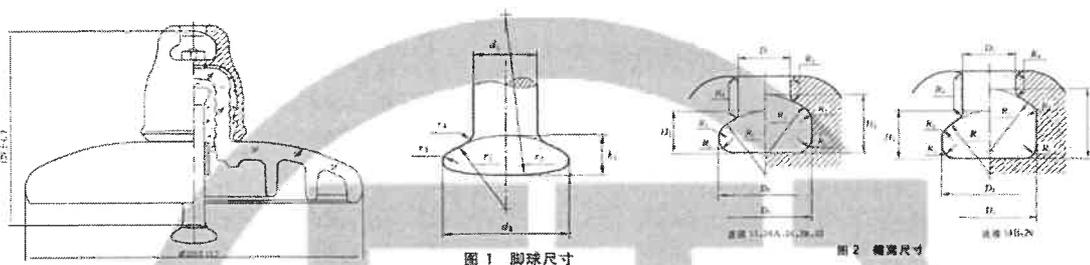
Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Verification of the dimensions

Test date: Jul. 21, 2025

1. Test requirements:

The dimensions of the test insulators shall be checked in accordance with the relevant drawings. The tolerance provided by the drawing shall be valid. If there is no tolerance provided by drawing, see the following diagram:



Unit: mm

2. Test results:

No of the samples	d ₁ (mm) 17 ⁰ _{-1.2}	d ₂ (mm) 33.3 ⁰ _{-1.5}	h ₁ (mm) 13.4 ⁰ _{-1.3}	D ₁ (mm) 19.2 ^{+1.6} ₀	D ₂ (mm) 34.5±2.87	D ₃ (mm) 34.5±2.87
25XJ0170-S-#61	16.2	32.2	12.4	19.7	34.2	34.2
25XJ0170-S-#62	16.4	32.3	12.6	19.7	34.1	34.6
25XJ0170-S-#63	16.4	32.4	12.6	19.7	34.2	34.1
25XJ0170-S-#64	16.5	32.5	12.5	20.0	34.3	34.6
25XJ0170-S-#65	16.3	32.5	12.5	19.8	34.3	34.6
25XJ0170-S-#66	16.3	32.4	12.5	19.6	34.4	34.2
25XJ0170-S-#67	16.3	32.5	12.5	19.6	34.5	34.3
25XJ0170-S-#68	16.4	32.5	12.5	19.9	34.2	34.8
25XJ0170-S-#69	16.4	32.5	12.7	19.7	34.6	34.6
25XJ0170-S-#70	16.4	32.5	12.4	19.8	34.6	34.2
25XJ0170-S-#71	16.5	32.3	12.4	19.8	34.3	34.2
25XJ0170-S-#72	16.5	32.4	12.4	19.9	34.5	34.5

Note: A tolerance of ±(0.04d+1.5)mm when d≤300mm and for all lengths of creepage distance, or ±(0.025d+6)mm when d>300mm shall be allowed on all dimensions for which specific tolerances are not requested or given.

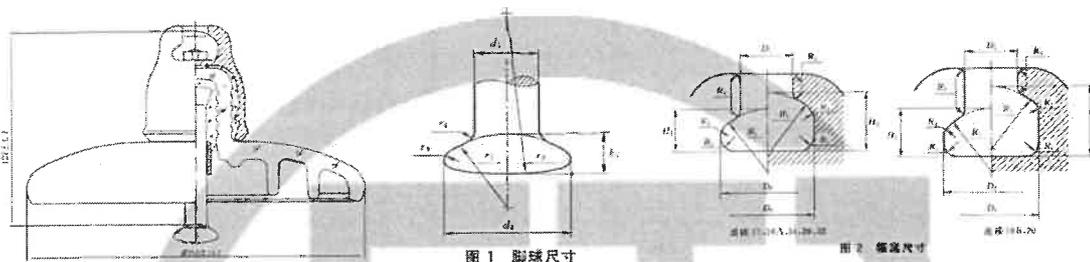
Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Verification of the dimensions (continued)

Test date: Jul. 21, 2025

1. Test requirements:

The dimensions of the test insulators shall be checked in accordance with the relevant drawings. The tolerance provided by the drawing shall be valid. If there is no tolerance provided by drawing, see the following diagram:



Unit: mm

2. Test results:

No of the samples	H ₁ (mm) 14.5 ^{+0.6} ₀	H ₂ (mm) 20.5±2.32	Thickness of locking device T ^b (mm) 5.5 ^{+0.2} ₀	H (mm) 127±4.7	D (mm) 255±11.7	Creepage distance (mm) 320±14.3
25XJ0170-S-#61	15.6	20.2	5.59	128	256	326
25XJ0170-S-#62	15.3	20.3	5.57	128	256	331
25XJ0170-S-#63	15.1	20.3	5.56	128	256	328
25XJ0170-S-#64	15.3	20.2	5.61	127	255	325
25XJ0170-S-#65	15.4	20.2	5.63	127	256	326
25XJ0170-S-#66	15.4	20.6	5.52	127	255	323
25XJ0170-S-#67	15.6	20.5	5.59	127	256	326
25XJ0170-S-#68	15.2	20.4	5.58	127	255	328
25XJ0170-S-#69	15.3	20.6	5.54	128	256	329
25XJ0170-S-#70	15.2	20.3	5.56	128	255	325
25XJ0170-S-#71	15.3	20.4	5.57	127	255	325
25XJ0170-S-#72	15.5	20.6	5.55	127	256	326

Note: A tolerance of ±(0.04d+1.5)mm when d≤300mm and for all lengths of creepage distance, or ±(0.025d+6)mm when d>300mm shall be allowed on all dimensions for which specific tolerances are not requested or given.

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Verification of the dimensions (continued)

Test date: Jul. 21, 2025

2. Test result:

No of the samples	Gauge inspection			
	Socket		Ball	
	"GO" gauge	"NOT GO" gauge	"GO" gauge	"NOT GO" gauge
25XJ0170-S-#61	GO	NOT GO	GO	NOT GO
25XJ0170-S-#62	GO	NOT GO	GO	NOT GO
25XJ0170-S-#63	GO	NOT GO	GO	NOT GO
25XJ0170-S-#64	GO	NOT GO	GO	NOT GO
25XJ0170-S-#65	GO	NOT GO	GO	NOT GO
25XJ0170-S-#66	GO	NOT GO	GO	NOT GO
25XJ0170-S-#67	GO	NOT GO	GO	NOT GO
25XJ0170-S-#68	GO	NOT GO	GO	NOT GO
25XJ0170-S-#69	GO	NOT GO	GO	NOT GO
25XJ0170-S-#70	GO	NOT GO	GO	NOT GO
25XJ0170-S-#71	GO	NOT GO	GO	NOT GO
25XJ0170-S-#72	GO	NOT GO	GO	NOT GO

Note: /

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Verification of variation

Test date: Jul. 21, 2025

1. Test requirements:

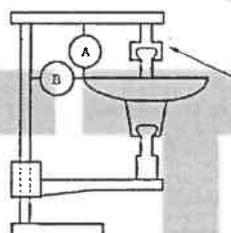
The string insulator unit is placed in light tension between suitably mounted coupling pieces. In the case of clevis and tongue couplings it may be necessary to add shims to centre the metal fitting in the couplings. The two coupling pieces shall be on the same vertical axis and shall be free to rotate.

The insulator is rotated through 360° and the maximum variation in the readings of the measuring devices is noted.

Maximum variation on axial measurement device: 4% of the nominal insulator diameter;

Maximum variation on radial measurement device: 3% of the nominal insulator diameter;

Nominal diameter: 255mm



盘形悬式绝缘子
A——轴向测量装置；
B——径向测量装置。

2. Test result:

No of the samples		Diameter of insulator (mm)	The first time measurement (mm)	The second time measurement (mm)	The third time measurement (mm)	Average value of three measurements (mm)	Variation (%)	Required value of variation (%)
Axial measuring device	25XJ0170-S-#61	255	2.15	2.69	2.81	2.55	1.00	≤4
	25XJ0170-S-#62		3.16	3.57	2.96	3.23	1.27	≤4
	25XJ0170-S-#63		2.55	3.69	3.12	3.12	1.22	≤4
	25XJ0170-S-#64		2.82	2.99	2.77	2.86	1.12	≤4
	25XJ0170-S-#65		2.61	2.49	2.71	2.60	1.02	≤4
	25XJ0170-S-#66		3.42	3.58	3.61	3.54	1.39	≤4
	25XJ0170-S-#67		2.71	2.66	2.54	2.64	1.04	≤4
	25XJ0170-S-#68		3.81	3.67	3.54	3.67	1.44	≤4
	25XJ0170-S-#69		2.81	2.98	2.56	2.78	1.09	≤4
	25XJ0170-S-#70		2.74	2.69	2.62	2.68	1.05	≤4
	25XJ0170-S-#71		3.27	3.15	3.60	3.34	1.31	≤4
	25XJ0170-S-#72		2.91	2.74	3.11	2.92	1.15	≤4

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Verification of variation (continued)

Test date: Jul. 21, 2025

1. Test requirements:

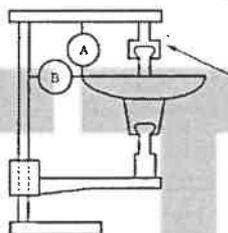
The string insulator unit is placed in light tension between suitably mounted coupling pieces. In the case of clevis and tongue couplings it may be necessary to add shims to centre the metal fitting in the couplings. The two coupling pieces shall be on the same vertical axis and shall be free to rotate.

The insulator is rotated through 360° and the maximum variation in the readings of the measuring devices is noted.

Maximum variation on axial measurement device: 4% of the nominal insulator diameter;

Maximum variation on radial measurement device: 3% of the nominal insulator diameter;

Nominal diameter: 280mm

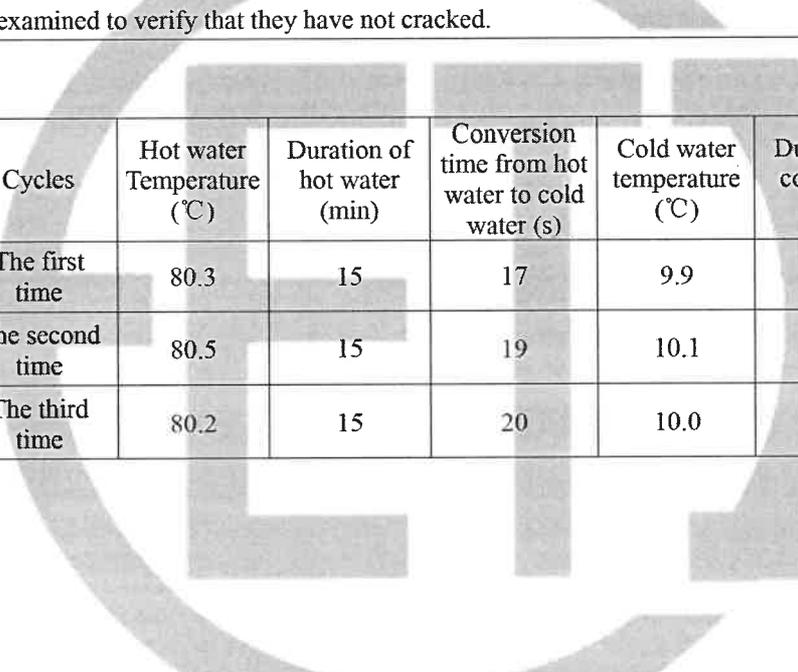


a) 盘形悬式绝缘子
A——轴向测量装置；
B——径向测量装置。

2. Test result:

No of the samples		Diameter of insulator (mm)	The first time measurement (mm)	The second time measurement (mm)	The third time measurement (mm)	Average value of three measurements (mm)	Variation (%)	Required value of variation (%)
Radial measuring device	25XJ0170-S-#61	255	2.11	2.15	1.96	2.07	0.81	≤3
	25XJ0170-S-#62		1.97	2.24	1.76	1.99	0.78	≤3
	25XJ0170-S-#63		2.54	2.12	2.66	2.44	0.96	≤3
	25XJ0170-S-#64		2.15	2.71	2.54	2.47	0.97	≤3
	25XJ0170-S-#65		1.87	1.66	1.59	1.71	0.67	≤3
	25XJ0170-S-#66		2.71	2.42	2.37	2.50	0.98	≤3
	25XJ0170-S-#67		2.61	2.54	2.22	2.46	0.96	≤3
	25XJ0170-S-#68		2.65	2.44	2.49	2.53	0.99	≤3
	25XJ0170-S-#69		2.81	3.26	2.22	2.76	1.08	≤3
	25XJ0170-S-#70		2.60	2.45	2.48	2.51	0.98	≤3
	25XJ0170-S-#71		2.71	2.49	2.62	2.61	1.02	≤3
	25XJ0170-S-#72		2.91	2.35	2.84	2.70	1.06	≤3

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report			U70B/127 Glass insulator		
Verification of the locking system						
Test date: Jul. 21, 2025						
1. Test requirements:						
<p>The size of locking system should meet the connect tag; The insulator unit is assembled with the corresponding ball-link. The locking device is placed in the locking position. Then, by applying movements comparable to those experienced in service, the string or ball-link is checked to see that no uncoupling can occur; Using a rectangular steel rod with a cross-sectional dimension of $24 \times 7.9 + 0.2$, apply tensile load to two arc-shaped ends of the W-split-pin along the axis direction; A tensile load F is applied to the eye of the W-split-pin along this axis. The load is gradually increased until the locking device moves to the coupling position. The operation from the locking to the coupling position shall be carried out three times in succession. The load F which causes the locking device to move from the locking to the coupling position is noted for each operation. After this, a load F_{max} shall be applied without causing complete removal of the locking device from the socket. The values of the load F for the three operations shall lie in 25~250N and F_{max} shall be 250N.</p>						
2. Test result:						
No of the samples		The locking device is placed in the locking position and then by applying movements comparable to those experienced in service, the string or ball-link is checked to see that no uncoupling can occur.			Whether the size of locking system meet the connect tag	
25XJ0170-S-#69~#72		Ball-link is no uncoupling			Yes	
No of the samples	Tensile load F(N)			Applied tensile load F_{max}		Test result
	The first time	The second time	The third time	Whether pull-out	Applied load (N)	
25XJ0170-S-#69	200	210	215	Not	255	Pass
25XJ0170-S-#70	210	215	210	Not	260	Pass
25XJ0170-S-#71	210	205	215	Not	255	Pass
25XJ0170-S-#72	210	215	220	Not	255	Pass
Note: /						

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report				U70B/127 Glass insulator		
Temperature cycle test							
Test date: Jul. 23, 2025							
1. Test requirements:							
<p>Insulators shall be quickly and completely immersed in a water bath maintained at a temperature 70 K higher than that of the cold bath used in the rest of the tests and left submerged for 15 min. They shall be withdrawn and quickly and completely immersed in the cold water bath where they shall remain submerged for the same time. This heating and cooling cycle shall be performed three times in succession. The time taken to transfer from either bath to the other shall be as short as possible and not exceed 30s.</p> <p>On completion of the third cycle, the insulators shall be subjected to the 1 min power-frequency test, and then the insulators shall be examined to verify that they have not cracked.</p>							
2. Test result:							
No of the samples	Cycles	Hot water Temperature (°C)	Duration of hot water (min)	Conversion time from hot water to cold water (s)	Cold water temperature (°C)	Duration of cold water (min)	Whether visible damage
25XJ0170-S- #73~#80	The first time	80.3	15	17	9.9	15	No
	The second time	80.5	15	19	10.1	15	No
	The third time	80.2	15	20	10.0	15	No
							
Note: /							

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator	
Temperature cycle test (continued)				
Test date: Jul. 23, 2025				
1. Test requirements:				
<p>Insulators shall be quickly and completely immersed in a water bath maintained at a temperature 70 K higher than that of the cold bath used in the rest of the tests and left submerged for 15 min. They shall be withdrawn and quickly and completely immersed in the cold water bath where they shall remain submerged for the same time. This heating and cooling cycle shall be performed three times in succession. The time taken to transfer from either bath to the other shall be as short as possible and not exceed 30s.</p> <p>On completion of the third cycle, the insulators shall be subjected to the 1 min power-frequency test, and then the insulators shall be examined to verify that they have not cracked.</p>				
2. Test result:				
No of the samples	Applied part	Test voltage (kV)	Duration (min)	Puncture times
25XJ0170-S-#73	Between the top and bottom of insulator	77.9	1	0
25XJ0170-S-#74		76.8	1	0
25XJ0170-S-#75		77.0	1	0
25XJ0170-S-#76		78.1	1	0
25XJ0170-S-#77		78.3	1	0
25XJ0170-S-#78		77.6	1	0
25XJ0170-S-#79		77.2	1	0
25XJ0170-S-#80		77.0	1	0
3. Test conclusion: After test there is no cracks on the insulators, the test has passed.				
Atmospheric conditions of test zone	P=101.0kPa; Environmental temperature t=29.9°C; Relative humidity: 70% Atmospheric correction factor Kt= / Altitude correction factor Ka= /			

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Galvanizing test

Test date: Jul. 21, 2025

1. the test is using the magnetic test method and the test result as follows: Unit: (μm)

No of the samples	Minimum value of each sample		Average value of each sample		Average value of all samples	
	Socket	Ball	Socket	Ball	Socket	Ball
25XJ0170-S-#69	109	99.6	126	107	124	106
25XJ0170-S-#70	109	97.9	124	104		
25XJ0170-S-#71	111	99.3	122	106		
25XJ0170-S-#72	104	98.6	124	105		
Specified value	/		≥70		≥85	

2. Test conclusion: The coating is continuous, uniform and smooth. The coating is sufficiently adherent to withstand handling consistent with the normal use of the article without peeling or flaking. The test is passed.

Note: /

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report			U70B/127 Glass insulator			
Radio interference voltage (RIV) test								
Test date: Jul. 25, 2025								
No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)	
	Required value (kV)	Measured value (kV)	Duration (min)					
25XJ0170-S -#69	1.1 U_r	11.0	5	4.4	31.8	38.8	≤ 50	
	0.3 U_r	3.0	Decrease in steps	3.9	31.3	36.6	≤ 50	
	1.1 U_r	11.1	1	4.3	31.7	38.4	≤ 50	
	1.0 U_r	10.1	Decrease in steps	4.2	31.6	37.9	≤ 50	
	0.9 U_r	9.0		4.1	31.5	37.5	≤ 50	
	0.8 U_r	8.0		4.0	31.4	37.1	≤ 50	
	0.7 U_r	7.0		4.0	31.4	37.1	≤ 50	
	0.6 U_r	6.0		3.9	31.3	37.6	≤ 50	
	0.5 U_r	5.0		4.0	31.4	36.1	≤ 50	
	0.4 U_r	4.0		4.0	31.4	37.1	≤ 50	
	0.3 U_r	3.0		3.9	31.3	36.6	≤ 50	
	State of sample before test: /. Background (dB): 16.7, B_1 (dB)=55.2, B_2 (dB)=61.0; Loop attenuation coefficient B_c (dB)= $B_2-B_1=5.8$ Resistance network attenuation coefficient $B_R=20\log^{300/R/2}=21.58$ $B=B_m+B_c+B_R$							
Atmospheric conditions of test zone	P=100.5kPa; Environmental temperature t=28.6°C; Relative humidity: 55% Atmospheric correction factor $K_t= /$ Altitude correction factor $K_a= /$							

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Radio interference voltage (RIV) test (continued)

Test date: Jul. 25, 2025

No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μ V)	Required level (μ V)
	Required value (kV)	Measured value (kV)	Duration (min)				
25XJ0170-S -#70	$1.1U_r$	11.0	5	4.5	31.9	39.3	≤ 50
	$0.3U_r$	3.0	Decrease in steps	3.9	31.3	36.6	≤ 50
	$1.1U_r$	11.0	1	4.4	31.8	38.8	≤ 50
	$1.0U_r$	10.0	Decrease in steps	4.4	31.8	38.8	≤ 50
	$0.9U_r$	9.0		4.3	31.7	38.4	≤ 50
	$0.8U_r$	8.1		4.1	31.5	37.5	≤ 50
	$0.7U_r$	7.0		4.2	31.6	37.9	≤ 50
	$0.6U_r$	6.0		4.1	31.5	37.5	≤ 50
	$0.5U_r$	5.0		4.1	31.5	37.5	≤ 50
	$0.4U_r$	4.0		4.0	31.4	37.1	≤ 50
	$0.3U_r$	3.0		4.1	31.5	37.5	≤ 50

State of sample before test: /.

Background (dB): 16.7, B_1 (dB)=55.2, B_2 (dB)=61.0; Loop attenuation coefficient B_c (dB)= $B_2-B_1=5.8$

Resistance network attenuation coefficient $B_R=20\log^{300/R1/2}=21.58$

$B=B_m+B_c+B_R$

Atmospheric conditions of test zone	<p>P=100.5kPa; Environmental temperature $t=28.6^\circ\text{C}$; Relative humidity: 55%</p> <p>Atmospheric correction factor $K_t= /$ Altitude correction factor $K_a= /$</p>
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Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report	U70B/127 Glass insulator
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Radio interference voltage (RIV) test (continued)

Test date: Jul. 25, 2025

No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)
	Required value (kV)	Measured value (kV)	Duration (min)				
25XJ0170-S -#71	1.1 U_r	11.0	5	4.5	31.9	39.3	≤ 50
	0.3 U_r	3.0	Decrease in steps	4.1	31.5	37.5	≤ 50
	1.1 U_r	11.0	1	4.4	31.8	38.8	≤ 50
	1.0 U_r	10.0	Decrease in steps	4.3	31.7	38.4	≤ 50
	0.9 U_r	9.0		4.2	31.6	37.9	≤ 50
	0.8 U_r	8.0		4.1	31.5	37.5	≤ 50
	0.7 U_r	7.1		4.1	31.5	37.5	≤ 50
	0.6 U_r	6.0		4.0	31.4	37.1	≤ 50
	0.5 U_r	5.0		4.1	31.5	37.5	≤ 50
	0.4 U_r	4.0		4.0	31.4	37.1	≤ 50
	0.3 U_r	3.0		4.0	31.4	37.1	≤ 50

State of sample before test: /.

Background (dB): 16.7, B_1 (dB)=55.2, B_2 (dB)=61.0; Loop attenuation coefficient B_c (dB)= $B_2-B_1=5.8$

Resistance network attenuation coefficient $B_R=20\log^{300/R1/2}=21.58$

$B=B_m+B_c+B_R$

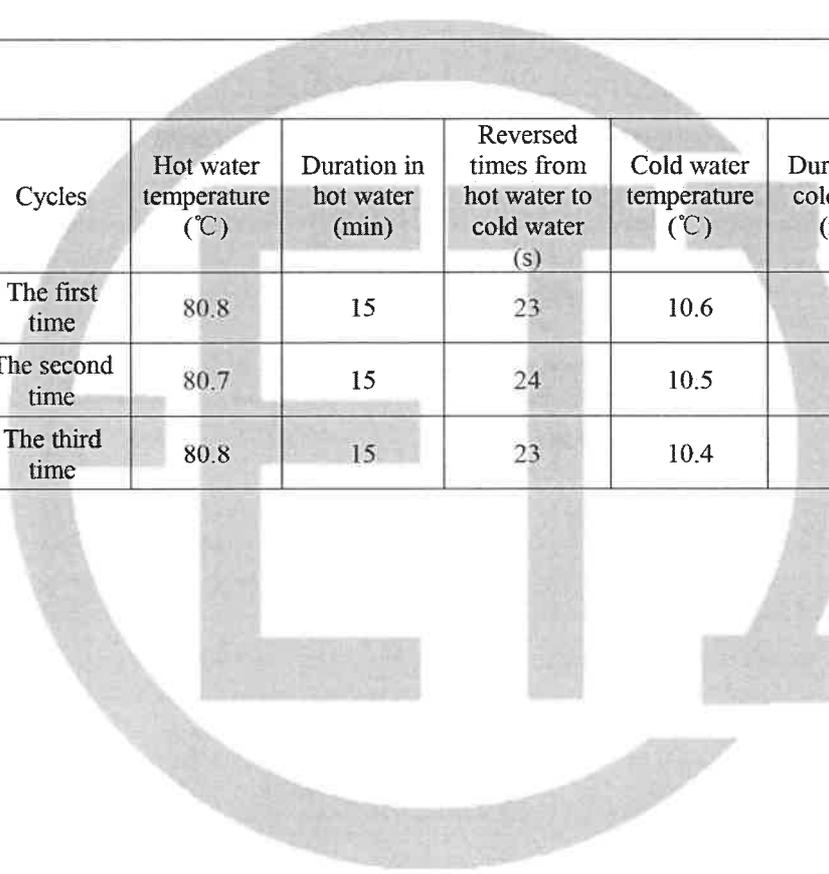
Atmospheric conditions of test zone	<p>P=100.5kPa; Environmental temperature $t=28.6^\circ C$; Relative humidity: 55%</p> <p>Atmospheric correction factor $K_t= /$ Altitude correction factor $K_a= /$</p>
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Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report			U70B/127 Glass insulator			
Radio interference voltage (RIV) test (continued)								
Test date: Jul. 25, 2025								
No of the sample	Test voltage			Meter reading B_m (dB)	Measured interference level B (dB)	Measured interference level (μV)	Required level (μV)	
	Required value (kV)	Measured value (kV)	Duration (min)					
25XJ0170-S #72	1.1 U_r	11.0	5	4.3	31.7	38.4	≤ 50	
	0.3 U_r	3.0	Decrease in steps	4.0	31.4	37.1	≤ 50	
	1.1 U_r	11.0	1	4.1	31.5	37.5	≤ 50	
	1.0 U_r	10.0	Decrease in steps	4.0	31.4	37.1	≤ 50	
	0.9 U_r	9.0		4.0	31.4	37.1	≤ 50	
	0.8 U_r	8.1		4.0	31.4	37.1	≤ 50	
	0.7 U_r	7.0		4.0	31.4	37.1	≤ 50	
	0.6 U_r	6.0		4.0	31.4	37.1	≤ 50	
	0.5 U_r	5.0		3.9	31.3	36.6	≤ 50	
	0.4 U_r	4.0		4.0	31.4	37.1	≤ 50	
	0.3 U_r	3.0		3.9	31.3	36.6	≤ 50	
	State of sample before test: /. Background (dB): 16.7, B_1 (dB)=55.2, B_2 (dB)=61.0; Loop attenuation coefficient B_c (dB)= $B_2-B_1=5.8$ Resistance network attenuation coefficient $B_R=20\log^{300/R1/2}=21.58$ $B=B_m+B_c+B_R$							
Atmospheric conditions of test zone	P=100.5kPa; Environmental temperature t=28.6°C; Relative humidity: 55% Atmospheric correction factor $K_t= /$ Altitude correction factor $K_a= /$							

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator	
Mechanical failing load test				
Test date: Jul. 28, 2025				
1. Test requirements:				
<p>Test method: the string insulator shall be subjected to tensile load between meatl fittings.</p> <p>The tensile load shall be increased from zero, rapidly but smoothly, up to approximately 75% of the specified mechanical failing load and shall then be gradually increased at a rate of increase between 100% and 35% of the specified mechanical failing load per minute (amount to specified mechanical failing load reached within 15s to 45s) until the failing load defined in clause 3 is reached and the value recorded.</p> <p>Specified mechanical failing load (SFL): 70kN.</p> <p>Acceptance criteria: $\bar{X}_1 \geq SFL + C_1 \sigma_1$, figure out acceptance criteria by means of this formula. C_1: 1.42</p>				
2. Test result:				
No of the samples	75% of the SFL (kN)	Time from 75% of the SFL to 100% of the SFL (s)	Failing load (kN)	Broken condition
25XJ0170-S-#61	52.5	21	132	Socket broken
25XJ0170-S-#62	52.5	20	116	Socket broken
25XJ0170-S-#63	52.5	21	129	Socket broken
25XJ0170-S-#64	52.5	20	117	Socket broken
25XJ0170-S-#65	52.5	21	130	Socket broken
25XJ0170-S-#66	52.5	20	119	Socket broken
25XJ0170-S-#67	52.5	21	134	Socket broken
25XJ0170-S-#68	52.5	20	143	Socket broken
3. Acceptance criteria:				
Specified mechanical failing load SFL (kN)	Mean value \bar{X}_1 (kN)	Acceptance constant C_1	Standard deviation σ_1	
70	127	1.42	9.42	
According to standard formula: $\bar{X}_1 \geq SFL + C_1 \sigma_1$; 127 (kN) > 83.4 (kN), then the test is passed.				

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report			U70B/127 Glass insulator
Thermal shock test				
Test date: Jul. 29, 2025				
1. Test requirements:				
<p>The insulators shall be quickly and completely immersed in water at a temperature not exceeding 50°C, the insulators having been heated by hot air or other suitable means to a uniform temperature at least 100K higher than that of water. The insulators shall remain in the water for at least 2min. Acceptance criteria: The insulators shall withstand this test without breakage of the insulating component.</p>				
2. Test result:				
No of the samples	Heating temperature (°C)	Water temperature (°C)	Duration (min)	Whether the insulating component broke
25XJ0170-S- #69~#72	140	30.9	2	No

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report				U70B/127 Glass insulator	
Power-frequency puncture withstand test						
Test date: Jul. 22, 2025						
1. Test result:						
No of the samples	Applied part	The resistivity of insulating oil ($\Omega \cdot m$)	Test voltage (kV)	Waveform	Frequency (Hz)	Test result
25XJ0170-S-# 69	Between the top and bottom of insulator	2.8×10^7	130	Sine	50	Pass
25XJ0170-S-# 70			130	Sine	50	Pass
25XJ0170-S-# 71			130	Sine	50	Pass
25XJ0170-S-# 72			130	Sine	50	Pass
2. Test conclusion: PASS.						
Atmospheric conditions of test zone	P=101.0kPa; Environmental temperature t=29.9°C; Relative humidity: 70% Atmospheric correction factor $K_t = /$ Altitude correction factor $K_a = /$					

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report				U70B/127 Glass insulator		
Residual strength test							
Test date: Jul. 29, 2025							
1. Test requirements:							
Temperature cycle test shall be carried out in accordance with Clause 25 of standard GB/T 1001.1-2021 before residual strength test.							
2. Test result:							
No of the samples	Cycles	Hot water temperature (°C)	Duration in hot water (min)	Reversed times from hot water to cold water (s)	Cold water temperature (°C)	Duration in cold water (min)	Whether visible damage
25XJ0170-S- #73~#80	The first time	80.8	15	23	10.6	15	No
	The second time	80.7	15	24	10.5	15	No
	The third time	80.8	15	23	10.4	15	No
							
Note: /							

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.	Test Report		U70B/127 Glass insulator	
Residual strength test (continued)				
Test date: Jul. 29, 2025				
No of the samples	50% of the SFL (kN)	Time from 50% of the SFL to specified mechanical failing load (s)	Failing load (kN)	Broken condition
25XJ0170-S-#73	35.0	56	96.5	Metal fitting separated
25XJ0170-S-#74	35.0	56	88.4	Metal fitting separated
25XJ0170-S-#75	35.0	56	106	Metal fitting separated
25XJ0170-S-#76	35.0	56	90.9	Metal fitting separated
25XJ0170-S-#77	35.0	56	77.8	Metal fitting separated
25XJ0170-S-#78	35.0	56	95.3	Metal fitting separated
25XJ0170-S-#79	35.0	56	108	Metal fitting separated
25XJ0170-S-#80	35.0	56	104	Metal fitting separated
3. Acceptance criteria:				
All the samples are separated, each failing load $X_b > SFL$, the test is passed.				

Suzhou Electrical Apparatus Science Research Institute Co., Ltd.		Test Report				U70B/127 Glass insulator				
Artificial pollution test										
Test date: Aug. 16, 2025										
1. Test result										
Salinity (kg/m ³): 56.2					Withstand voltage (kV): 110					
Test times No of the samples		1 st time			2 nd time			3 rd time		
		Test voltage (kV)	Duration of withstand voltage (min)	Flashover or not	Test voltage (kV)	Duration of withstand voltage (min)	Flashover or not	Test voltage (kV)	Duration of withstand voltage (min)	Flashover or not
25XJ0170-S- #81~#85		110	60	Not	110	60	Not	110	60	Not
Atmospheric conditions of test zone		P=101.1kPa; Environmental temperature t=31.2℃; Relative humidity: 52% Atmospheric correction factor Kt=/ Altitude correction factor Ka= /								

Outline drawing

U70B/127
Glass insulator

No: QS-G-14

技术要求
Technical Requirement

1. 绝缘件公称直径: 255mm.
1. Nominal Diameter: 255mm.
2. 公称结构高度: 127mm.
2. Nominal Space: 127mm.
3. 公称爬电距离: 320mm.
3. Creepage distance: 320mm.
4. 额定机电破坏负荷: 70kN.
4. Mechanical failing load: 70kN.
5. 逐个拉伸负荷试验: 35kN.
5. Routine failing load: 35kN.
6. 连接标记: 10A.
6. Coupling size: 10A.
7. 工频击穿电压: 130kV.
7. Power frequency puncture voltage: 130kV.
8. 雷电冲击耐受电压: 100kV.
8. Dry lightning impulse withstand voltage: 100kV.
9. 工频耐受电压: 干燥/潮湿环境: 70kV/40kV.
9. Power frequency withstand voltage: Dry one minute: 70kV, Wet one minute: 40kV.
10. 钢脚需要配带锌套.
10. With Zinc sleeve.
11. 除图示外应符合IEC60383规定要求.
11. According to IEC Standard 60383.

	型号	U70B/127
	名称	玻璃交流 悬式绝缘子
	图号	外形图
	标准号	图号
	图号	QS-G-14

萍乡强盛电瓷
制造有限公司

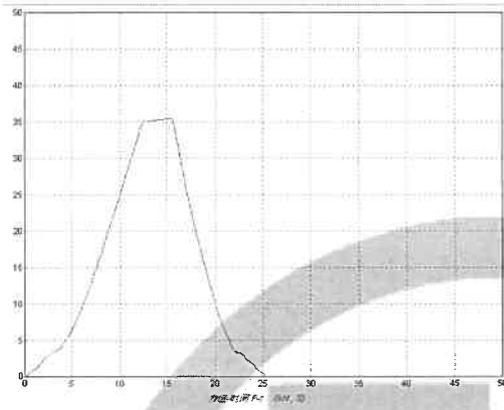
Pingxiang Qiangsheng
Electric Insulator
Manufacturing co., Ltd

Oscillograms of routine mechanical test

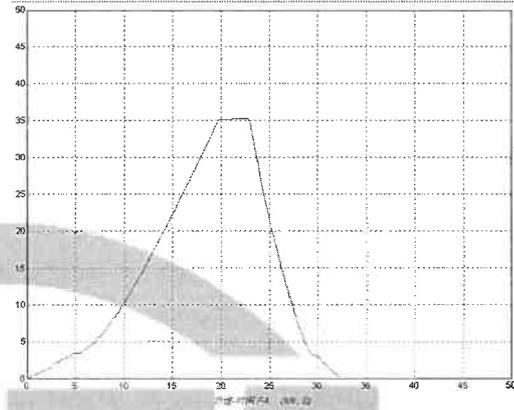
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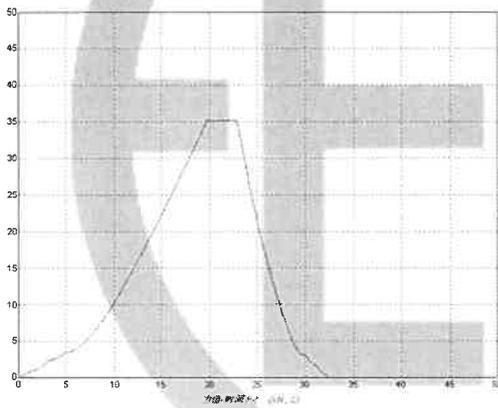
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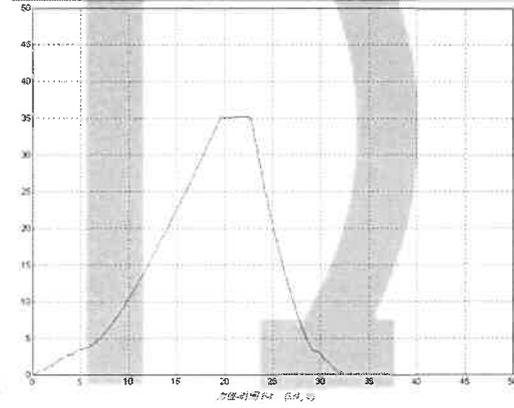
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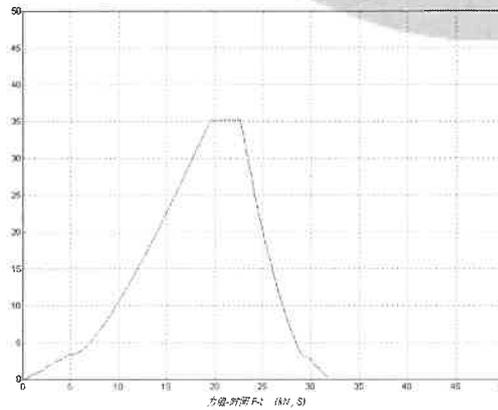
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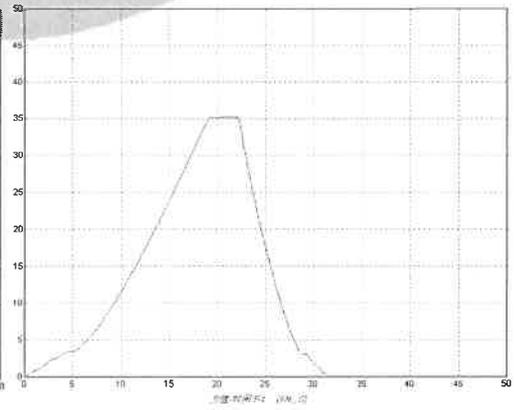
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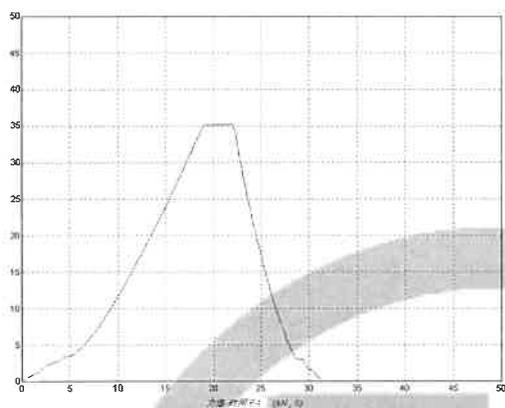


Oscillograms of routine mechanical test

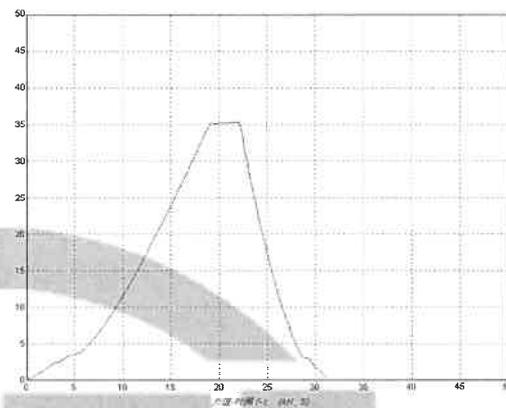
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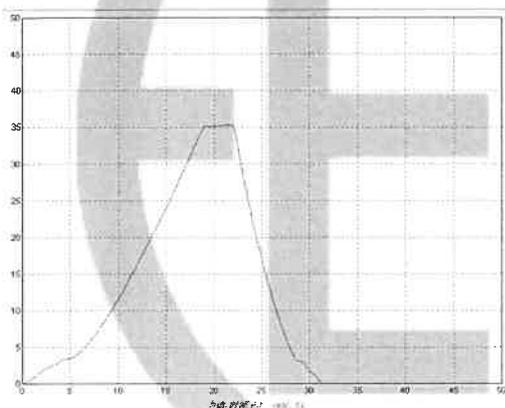
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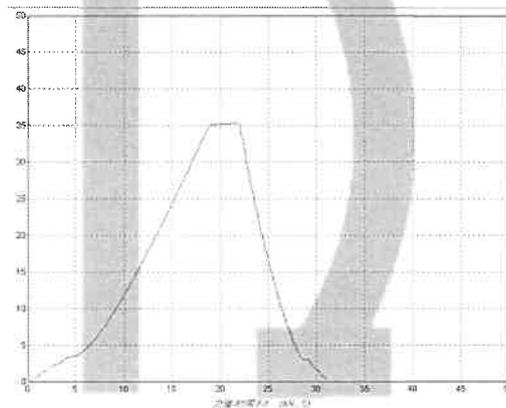
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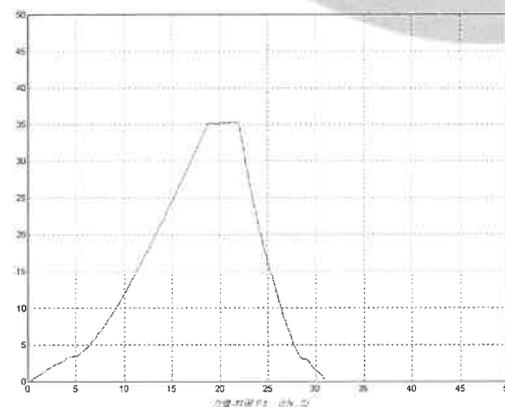
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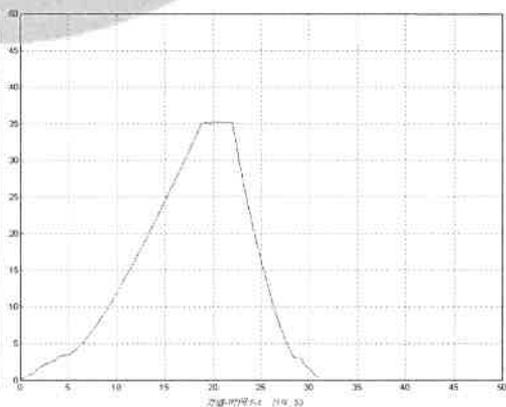
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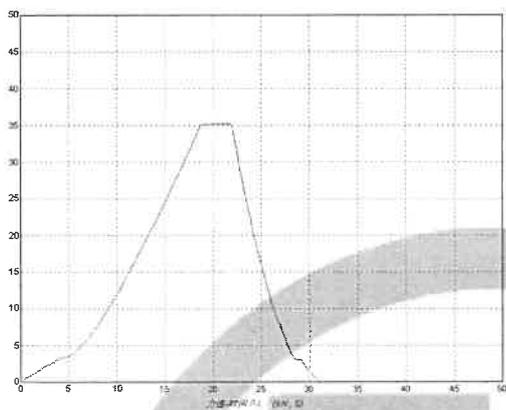


Oscillograms of routine mechanical test

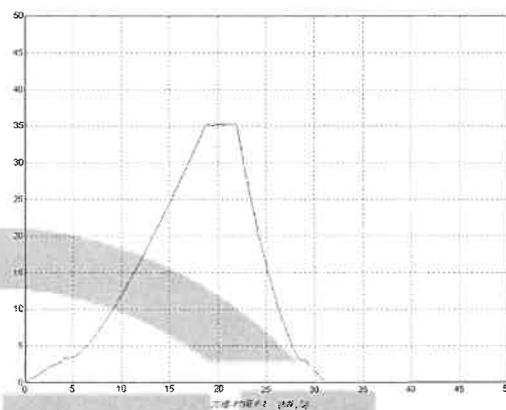
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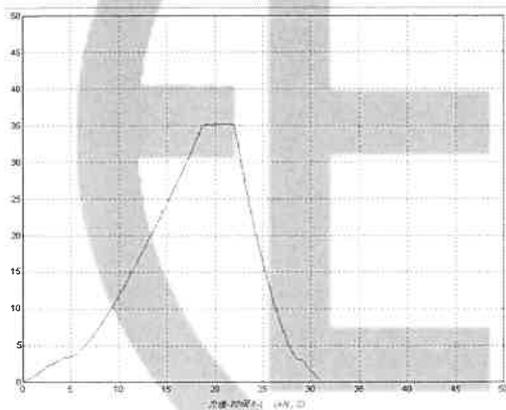
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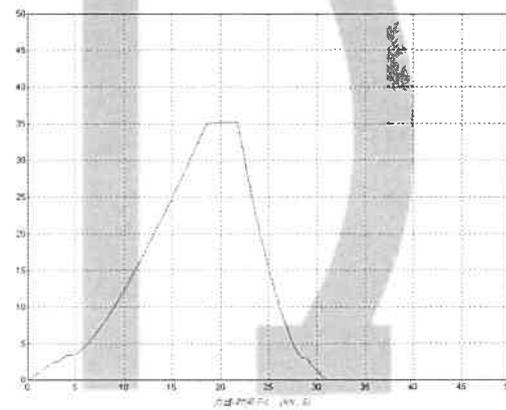
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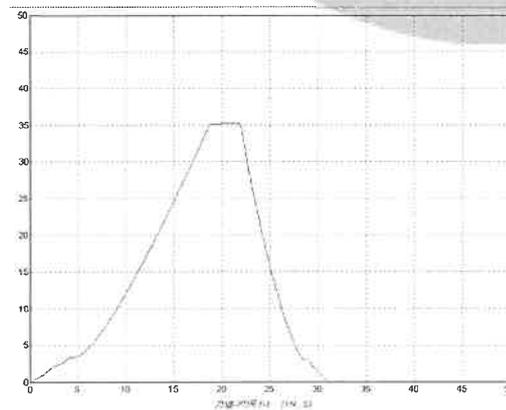
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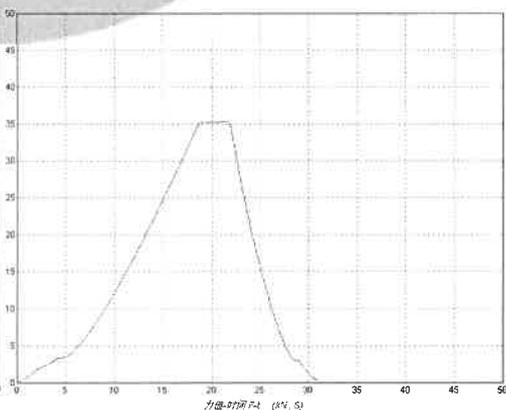
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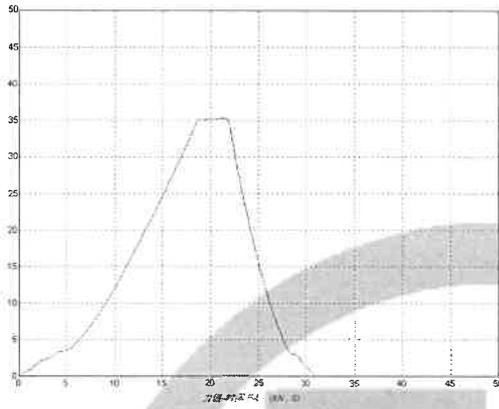


Oscillograms of routine mechanical test

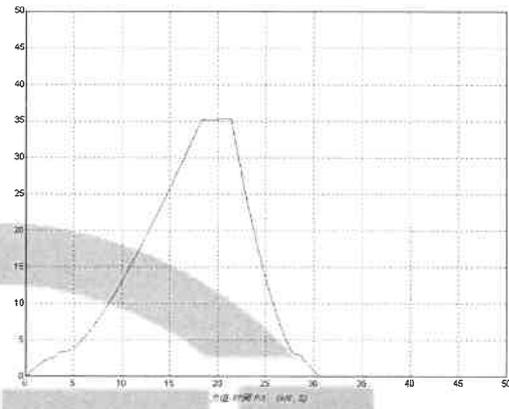
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Glass insulator

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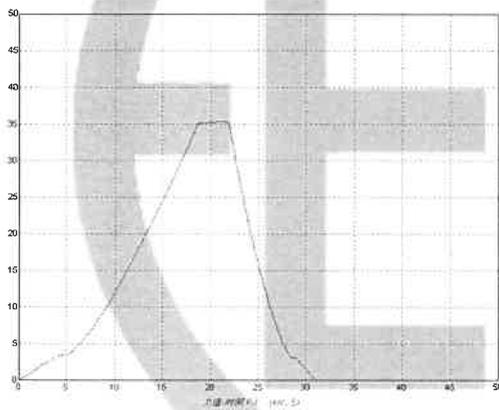
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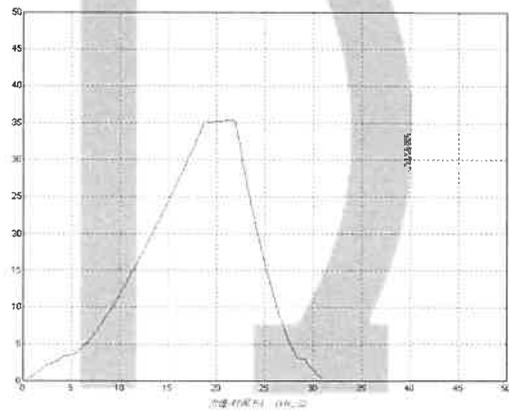
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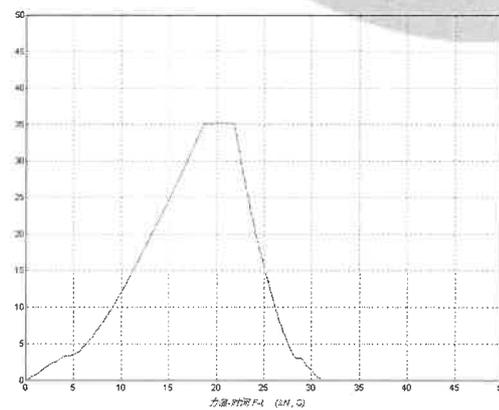
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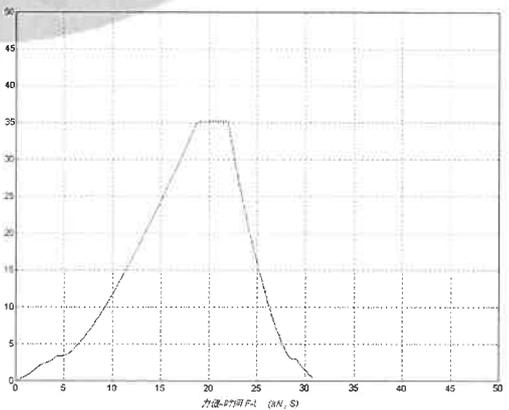
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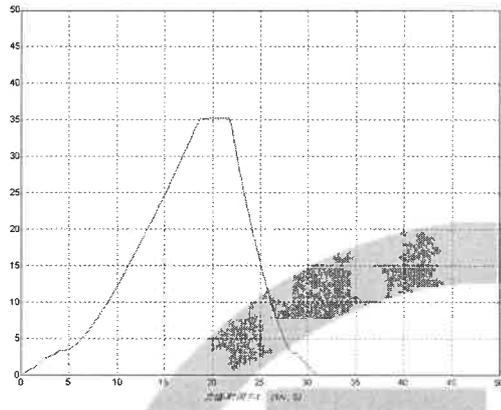


Oscillograms of routine mechanical test

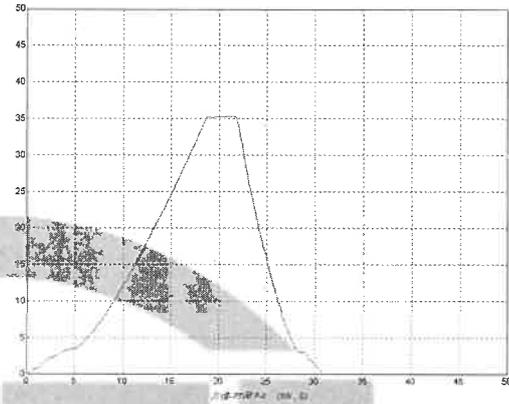
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Glass insulator

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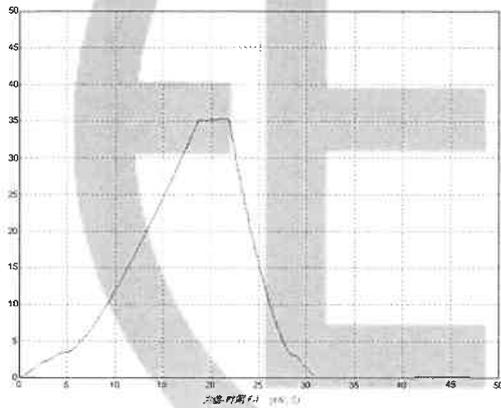
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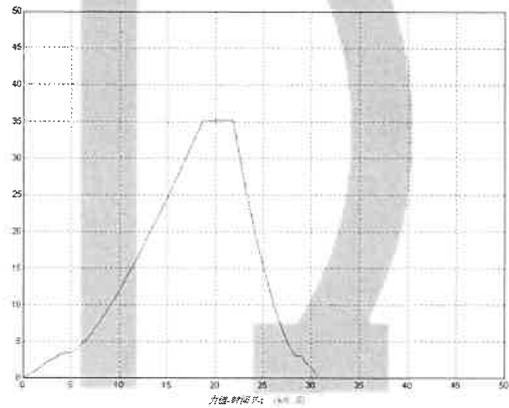
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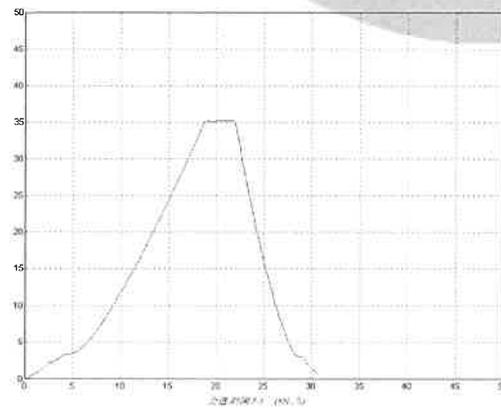
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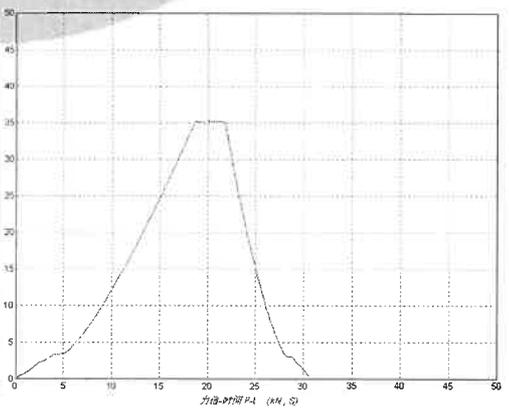
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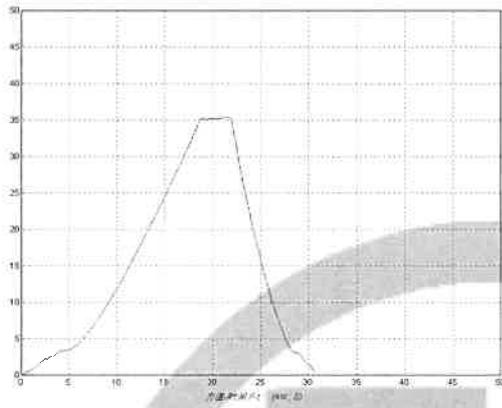


Oscillograms of routine mechanical test

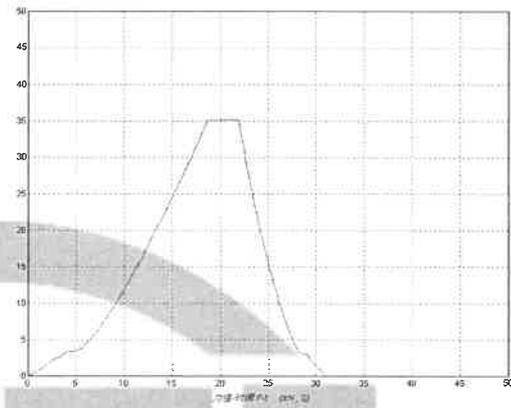
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Glass insulator

No: /

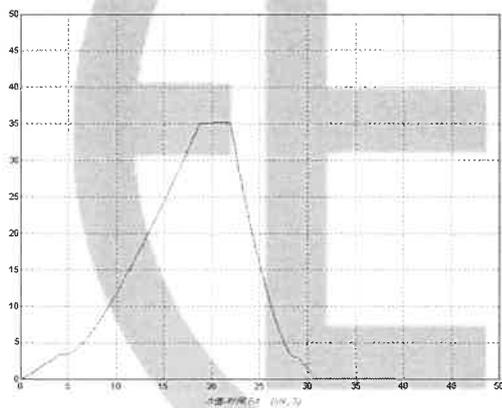
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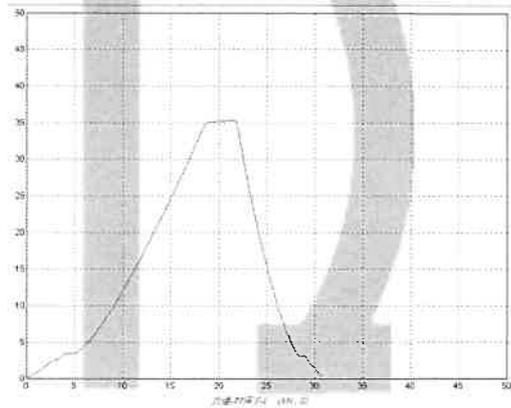
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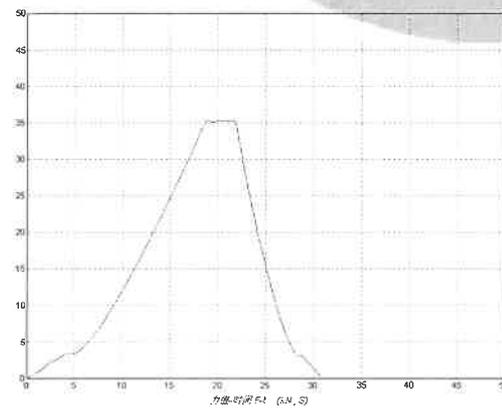
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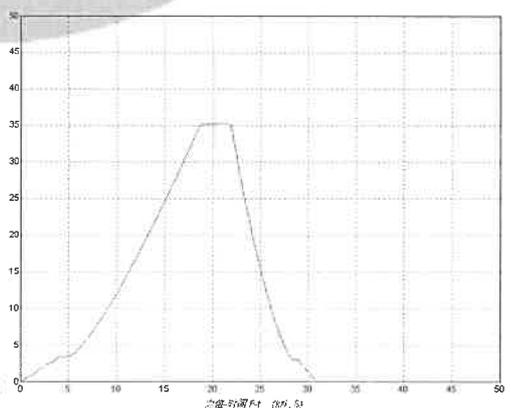
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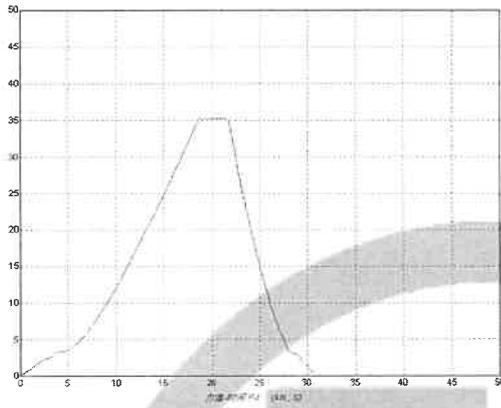


Oscillograms of routine mechanical test

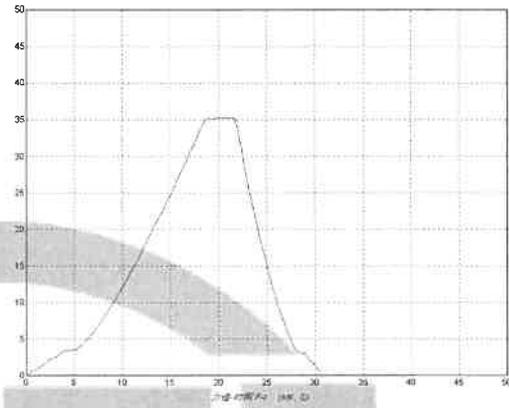
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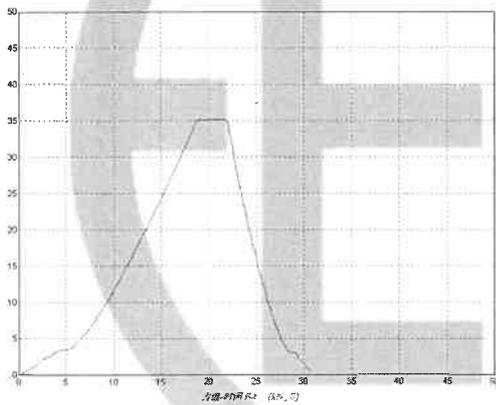
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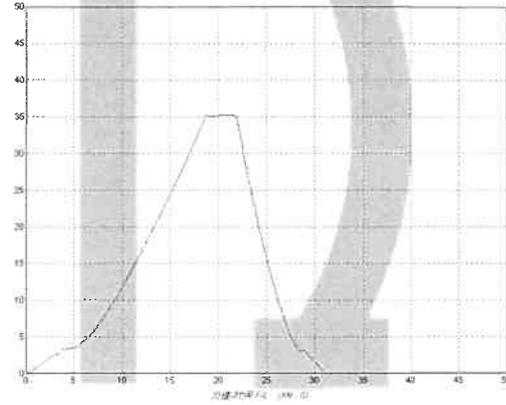
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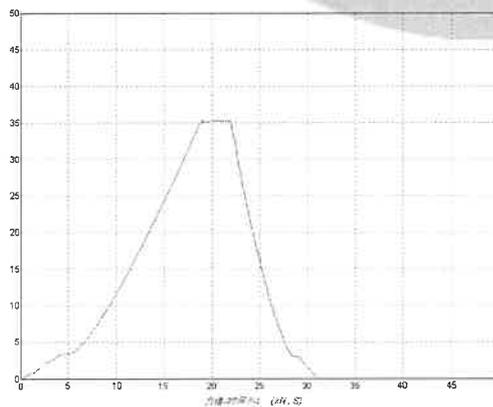
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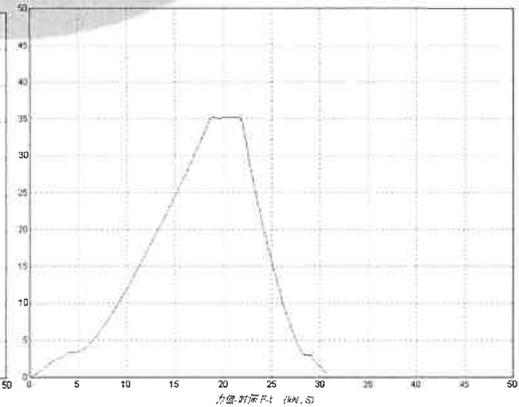
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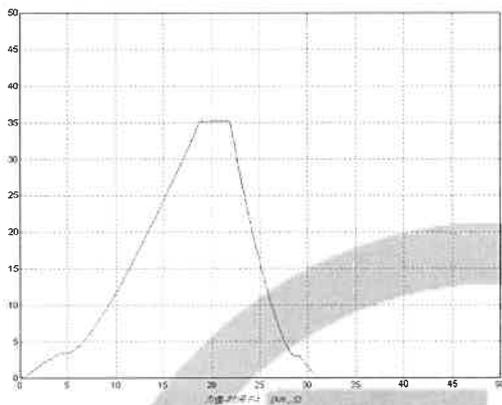


Oscillograms of routine mechanical test

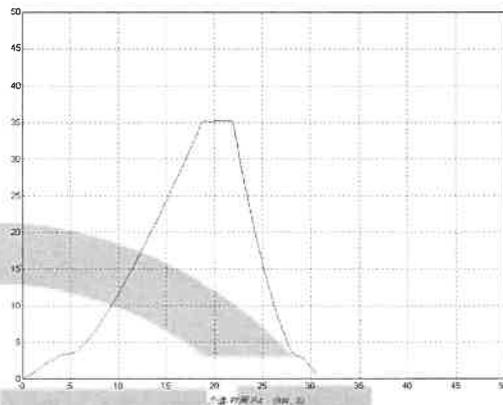
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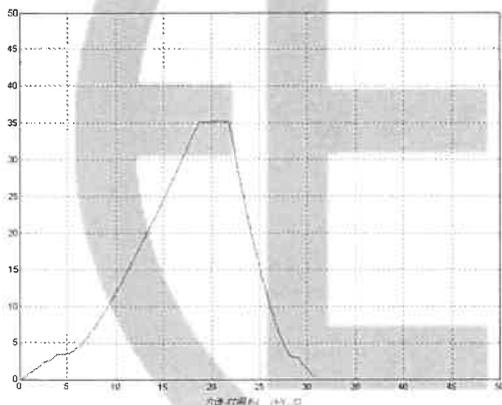
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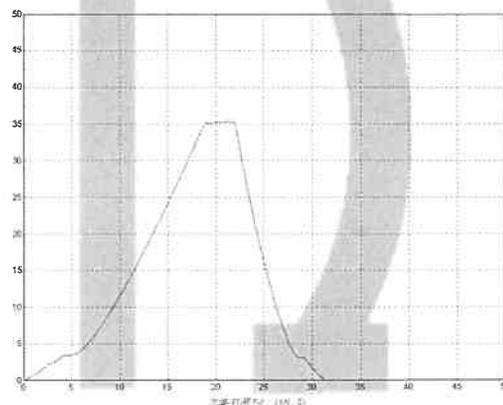
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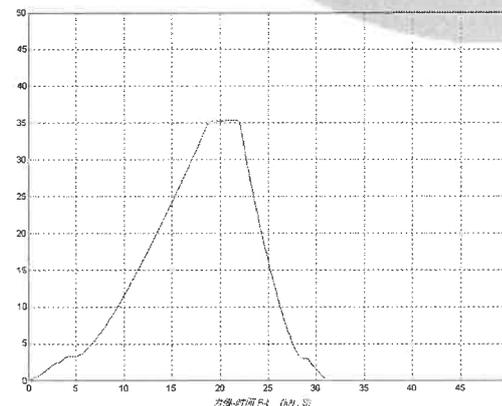
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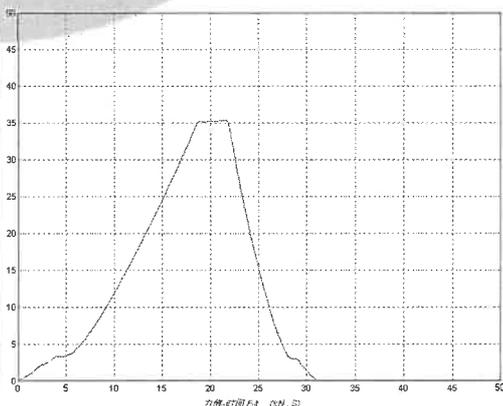
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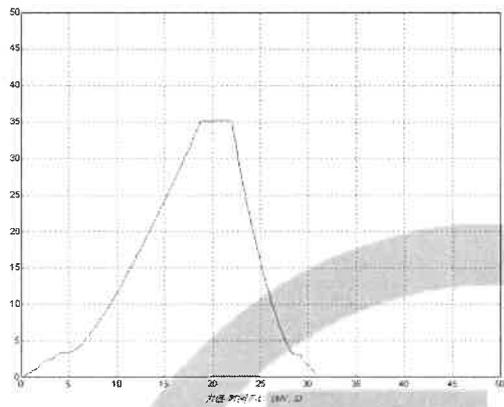


Oscillograms of routine mechanical test

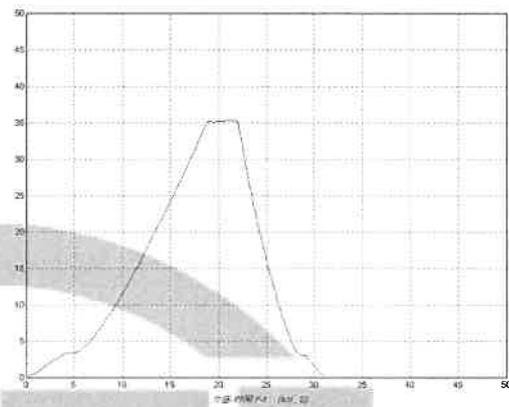
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Glass insulator

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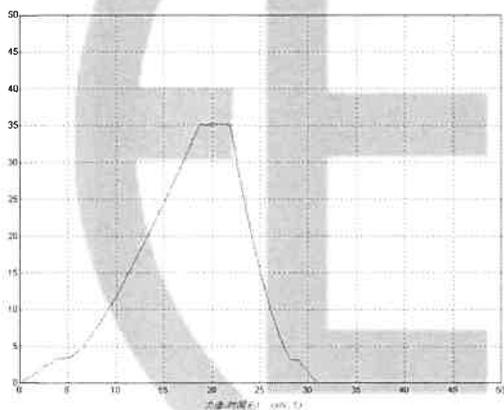
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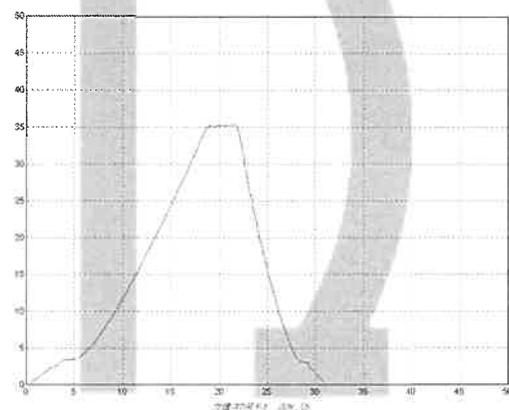
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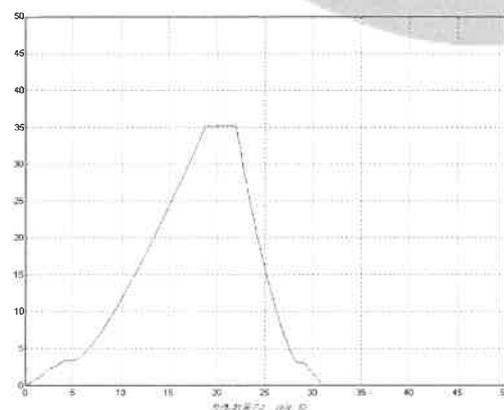
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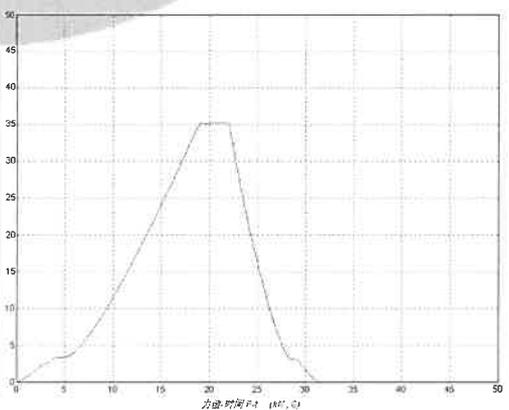
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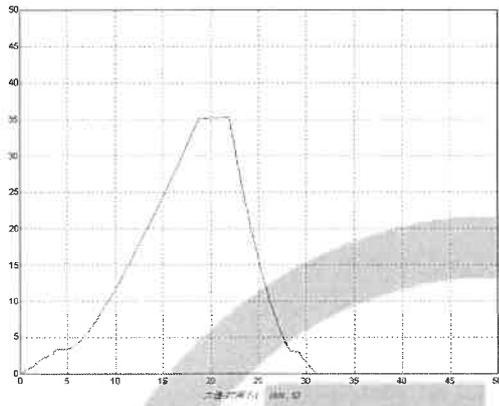


Oscillograms of routine mechanical test

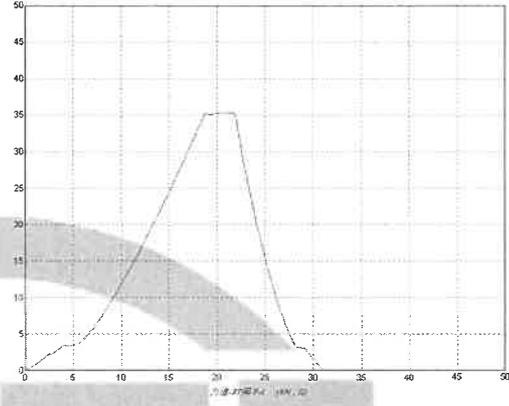
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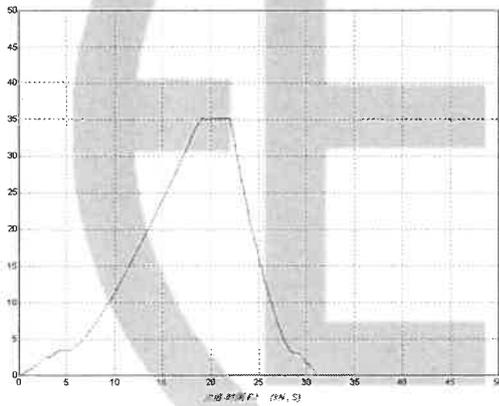
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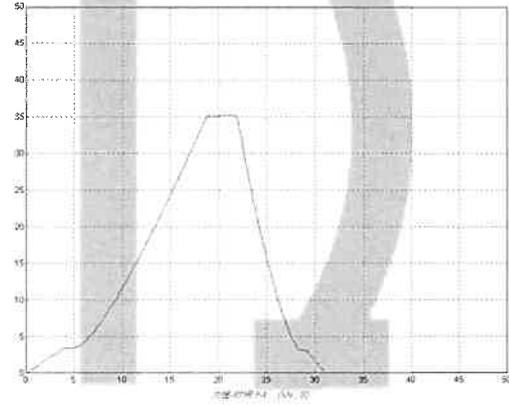
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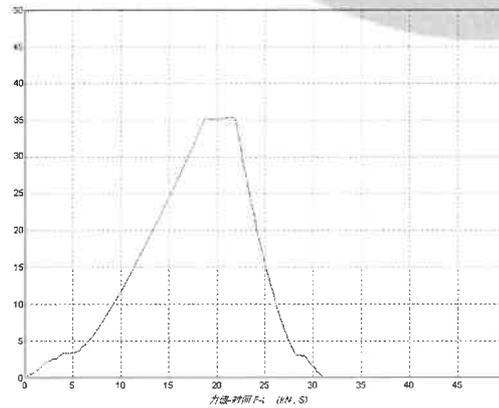
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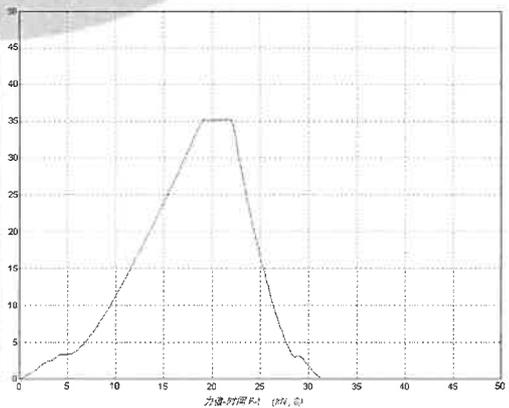
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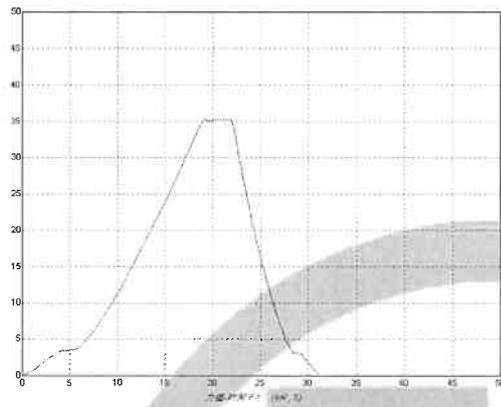


Oscillograms of routine mechanical test

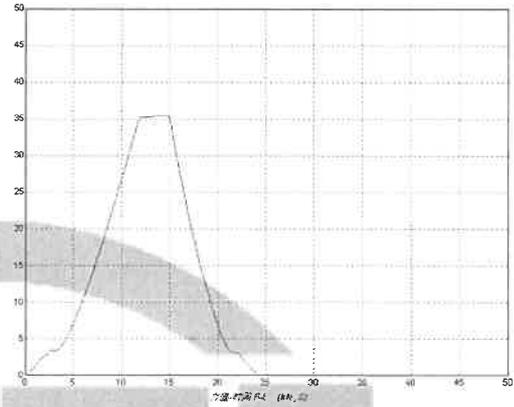
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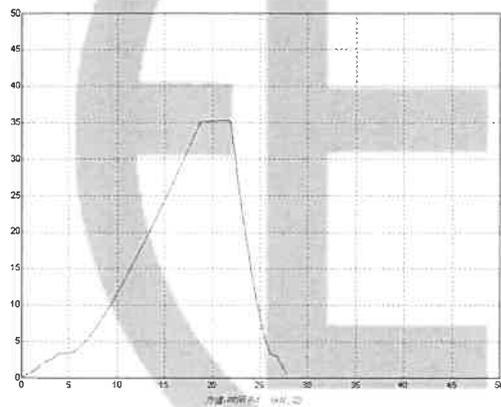
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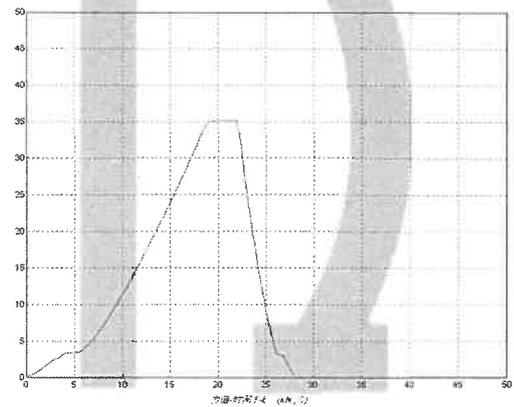
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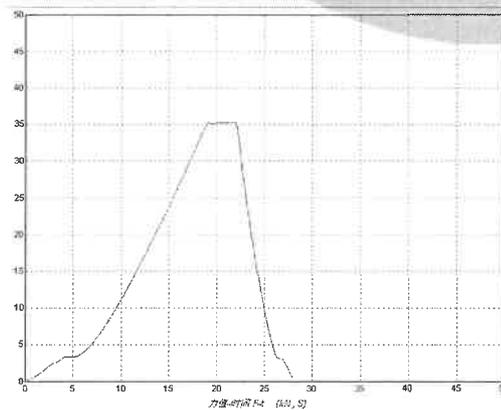
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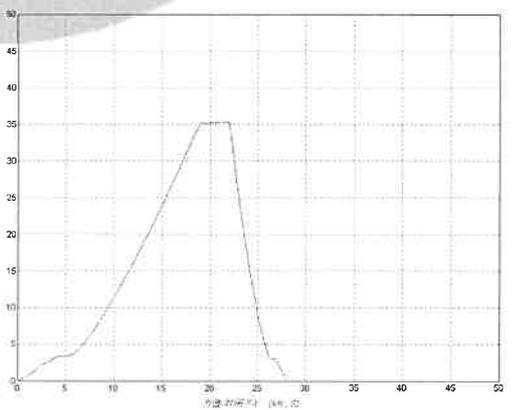
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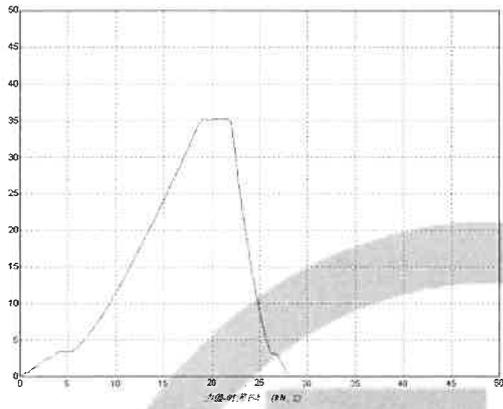


Oscillograms of routine mechanical test

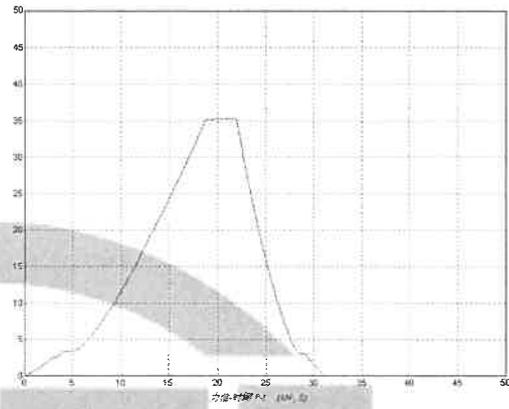
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Glass insulator

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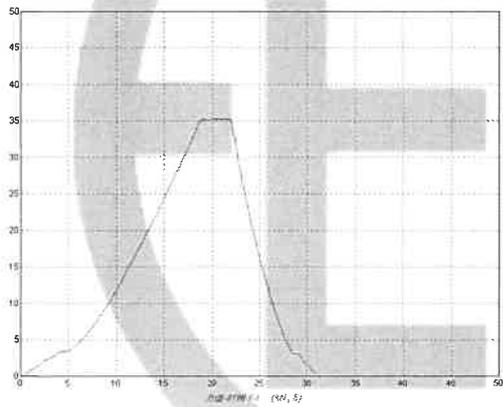
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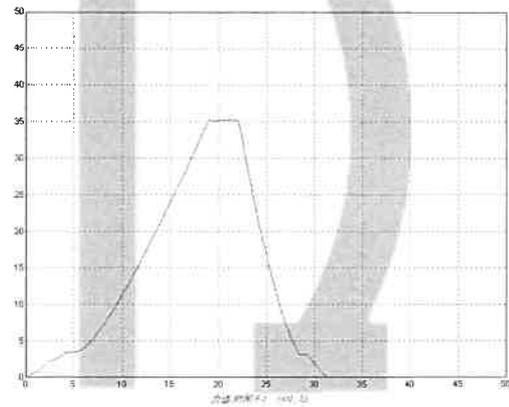
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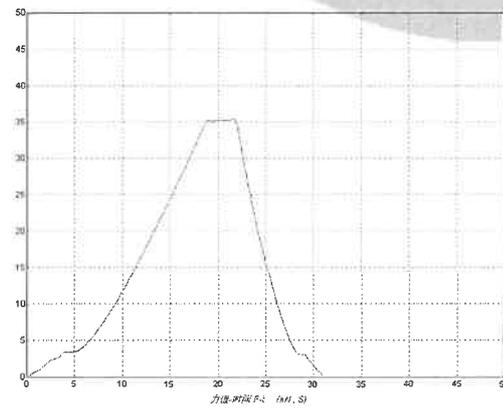
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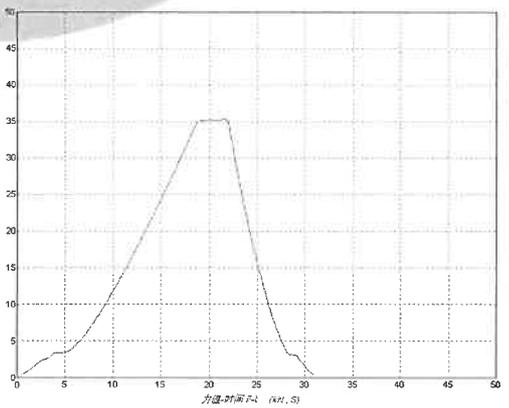
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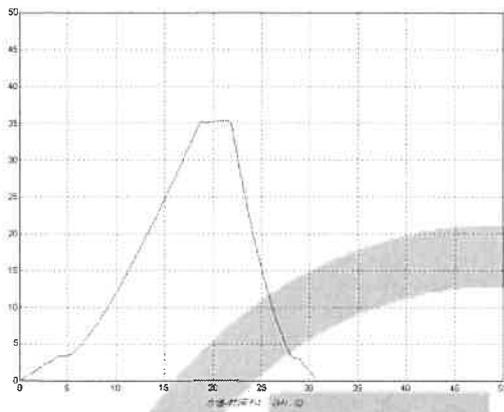


Oscillograms of routine mechanical test

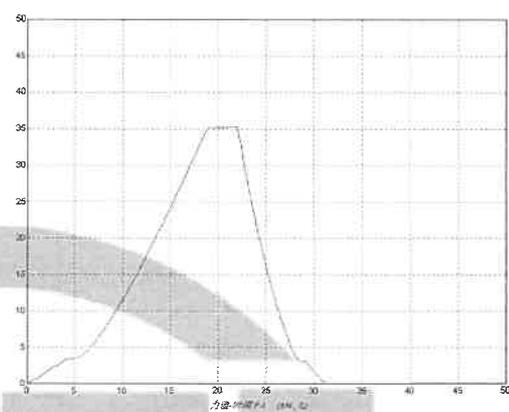
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Glass insulator

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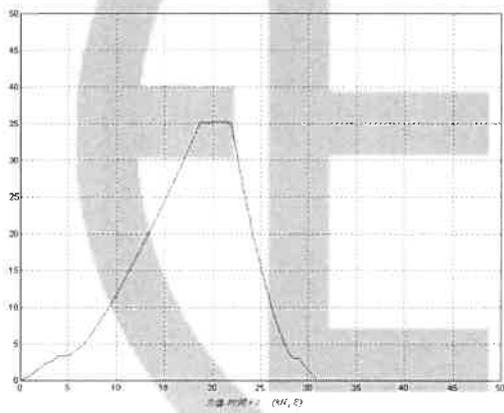
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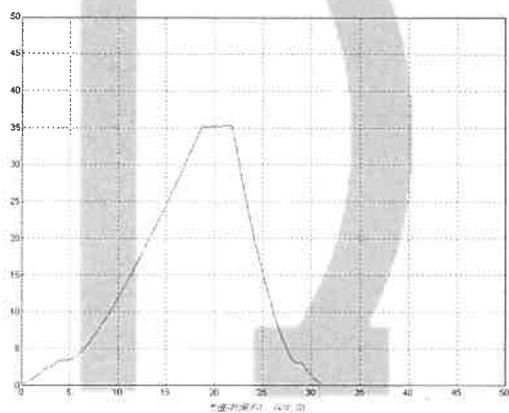
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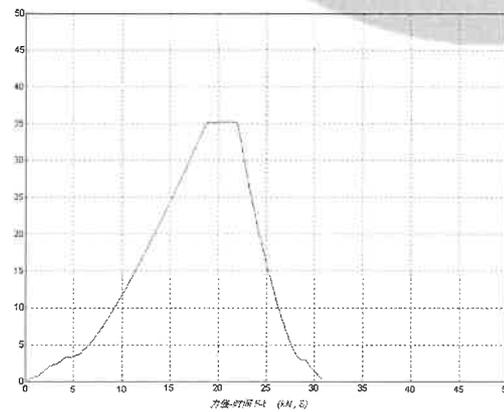
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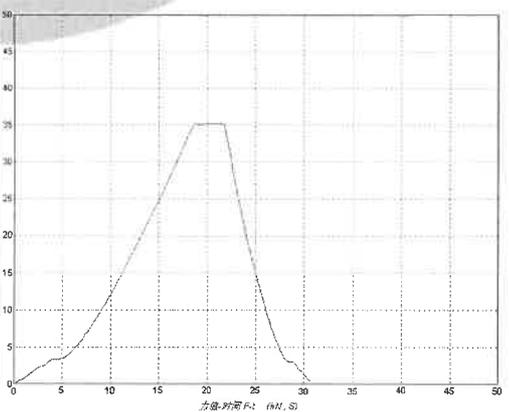
25XJ0170-S-#76



25XJ0170-S-#7



25XJ0170-S-#78

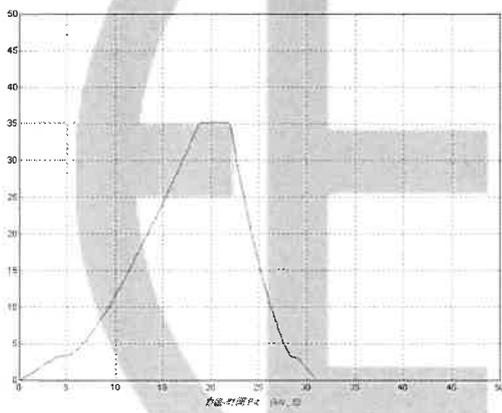


Oscillograms of routine mechanical test

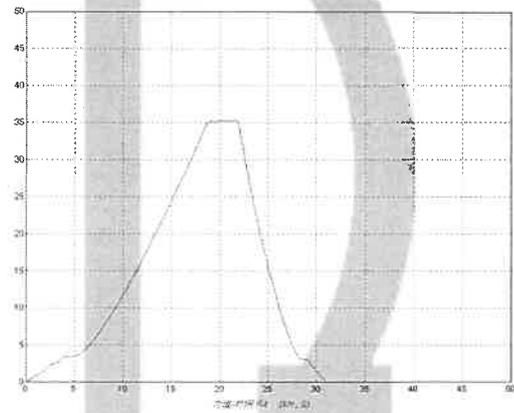
U70B/127
Glass insulator

No: /

25XJ0170-S-#79



25XJ0170-S-#80

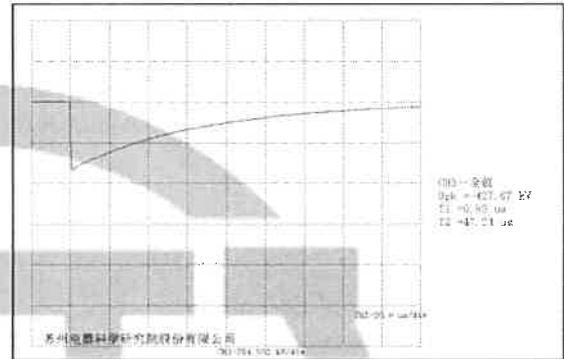
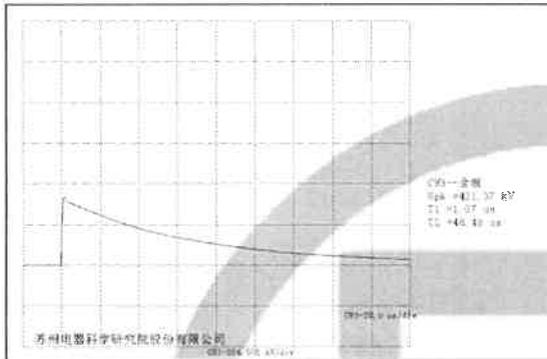


Oscillograms of dry lightning impulse voltage tests	U70B/127 Glass insulator
	No: /

25XJ0170-S-#11~#15 (five strings of insulator)

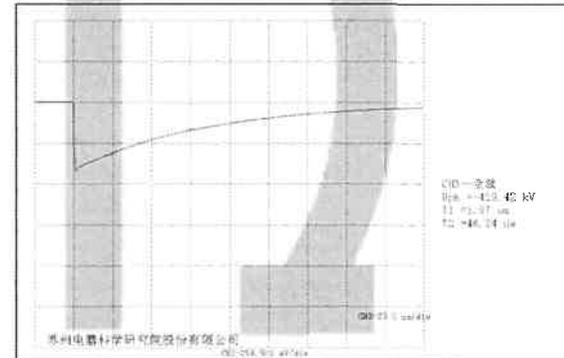
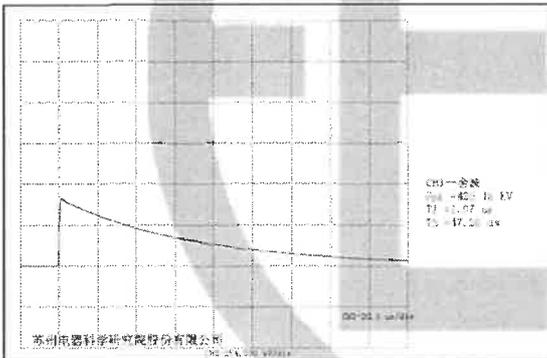
Positive polarity

Negative polarity



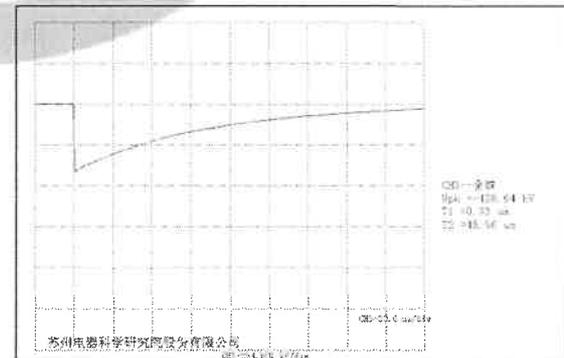
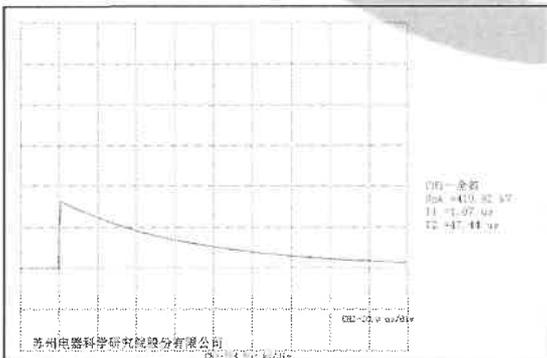
Positive polarity

Negative polarity



Positive polarity

Negative polarity

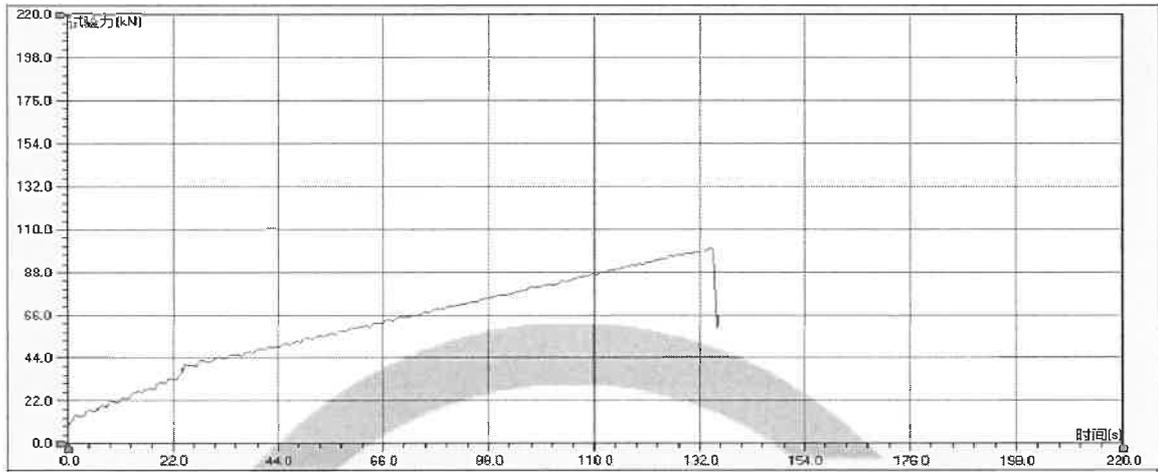


Oscillograms of residual strength test

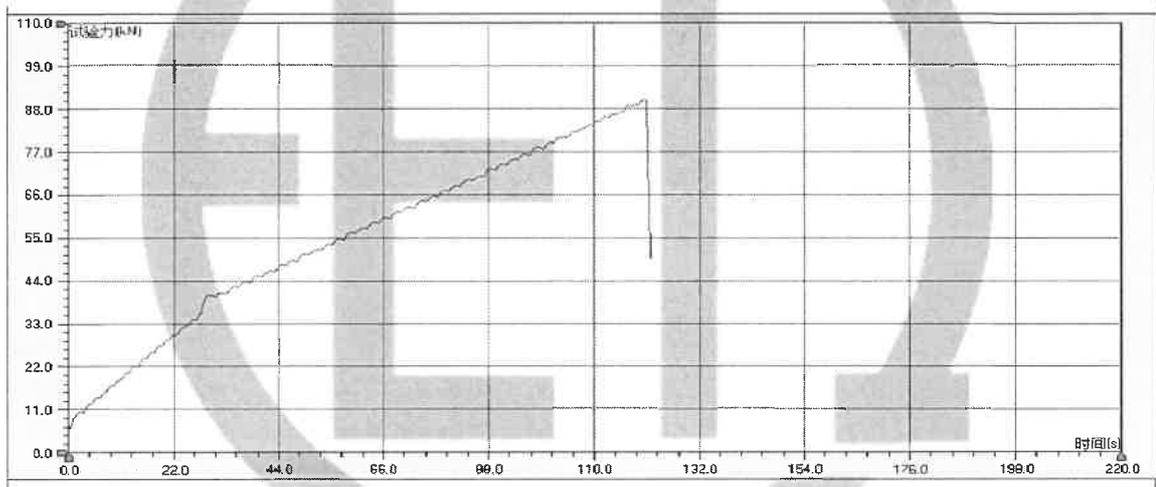
U70B/127
Glass insulator

No: /

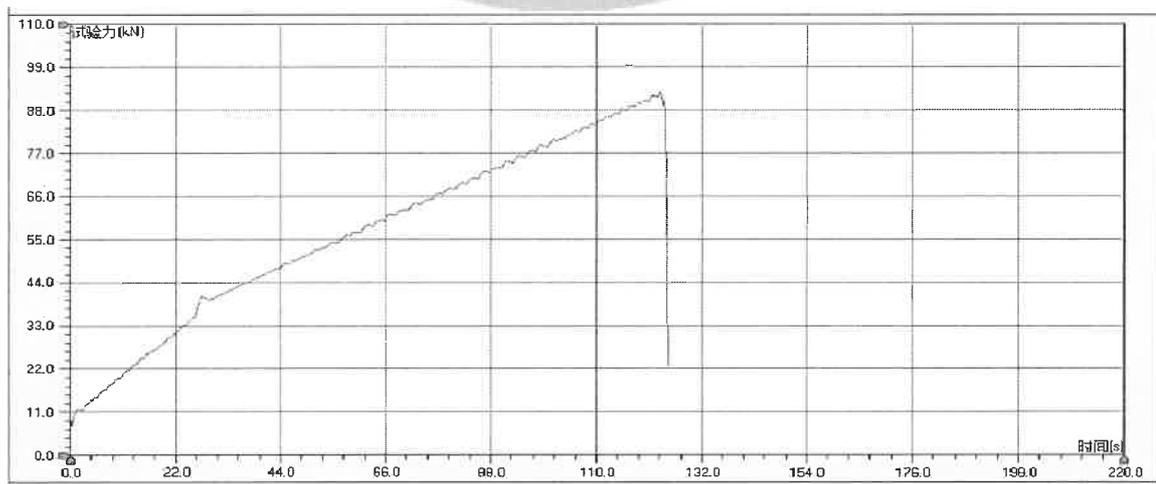
25XJ0170-S-#21



25XJ0170-S-#22



25XJ0170-S-#23

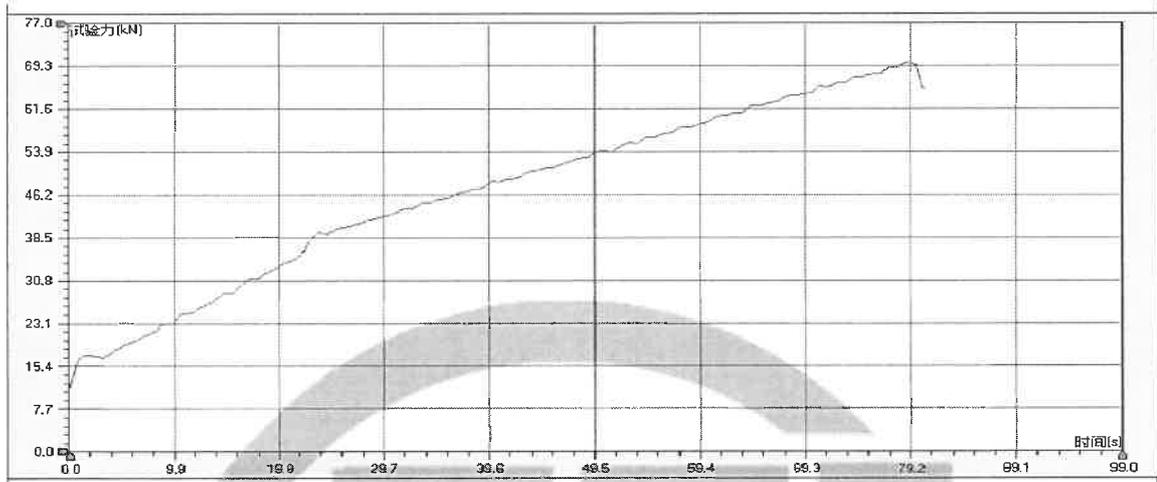


Oscillograms of residual strength test

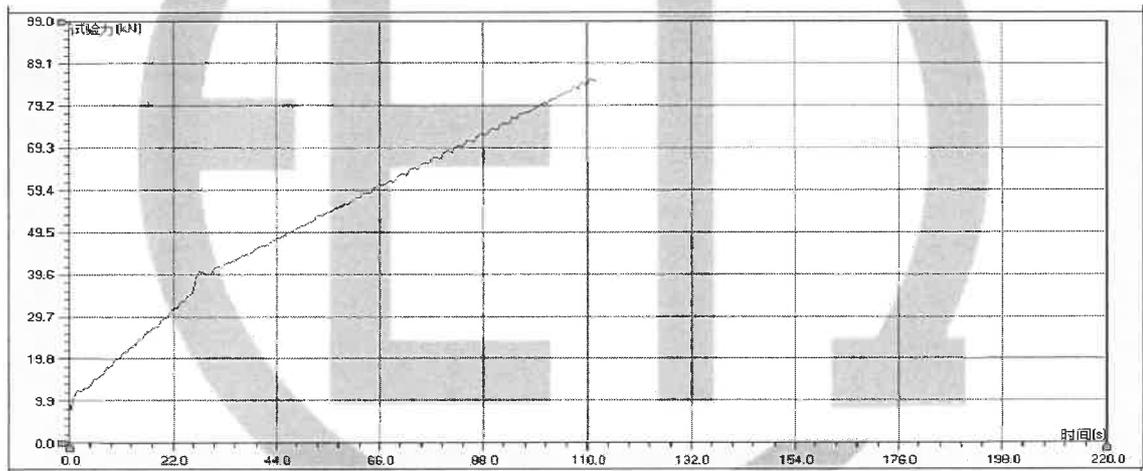
U70B/127
Glass insulator

No: /

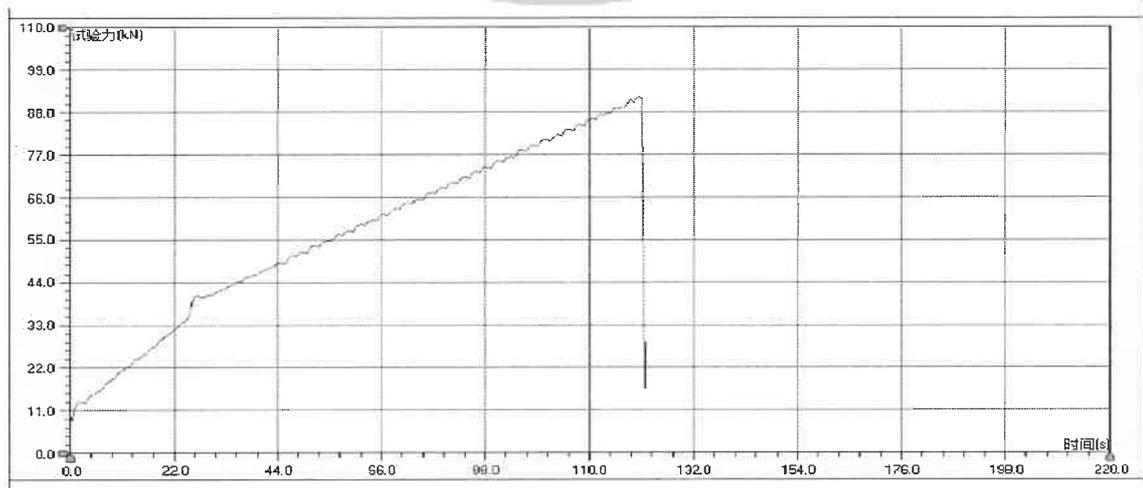
25XJ0170-S-#24



25XJ0170-S-#25



25XJ0170-S-#26

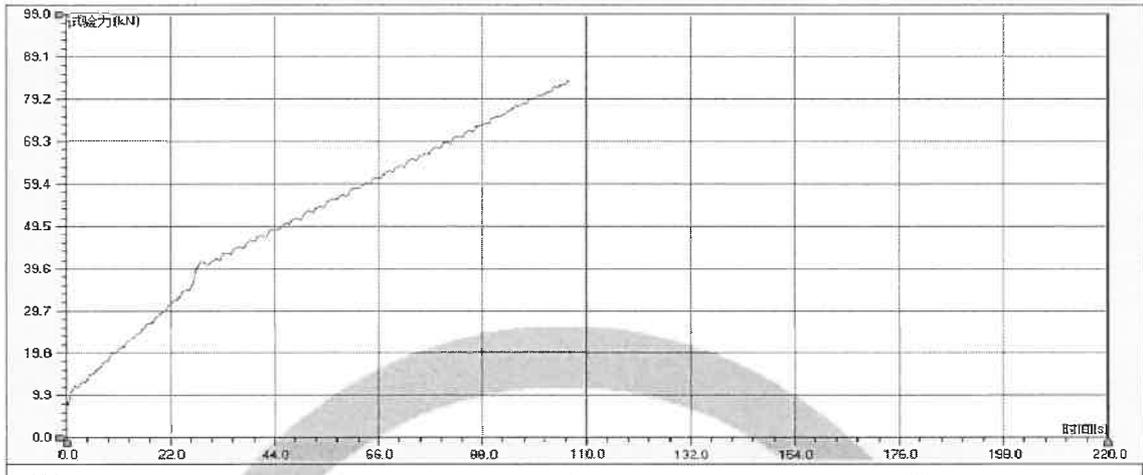


Oscillograms of residual strength test

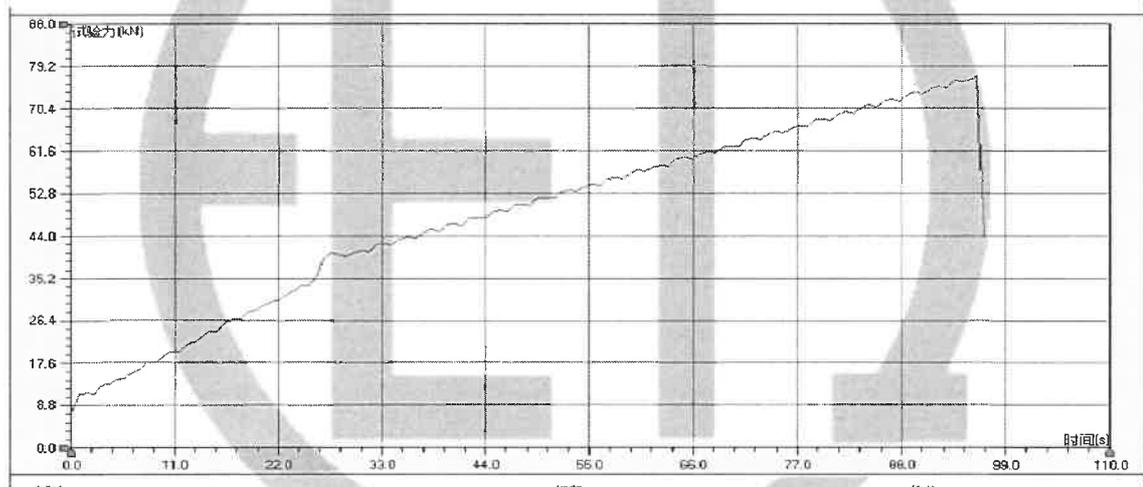
U70B/127
Glass insulator

No: /

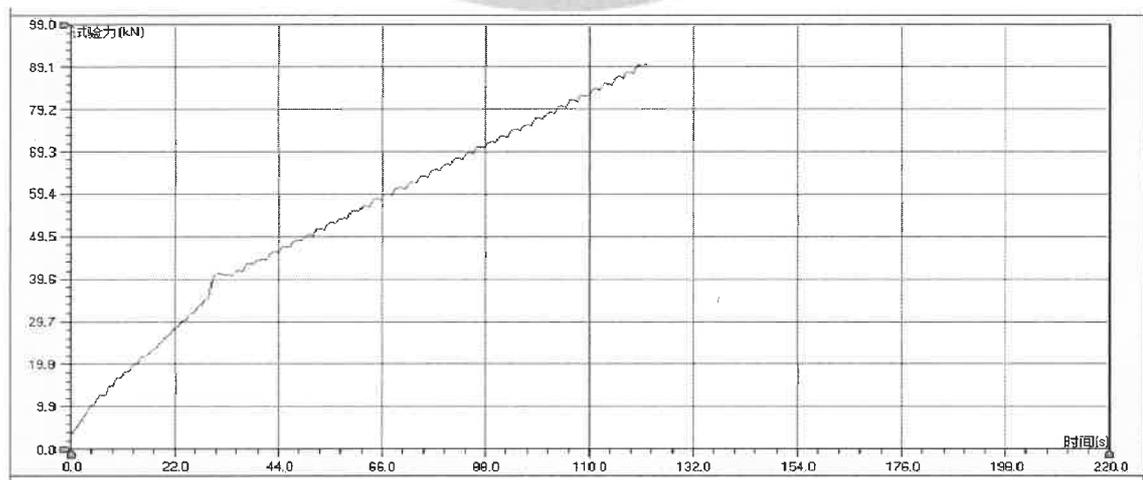
25XJ0170-S-#27



25XJ0170-S-#28



25XJ0170-S-#29

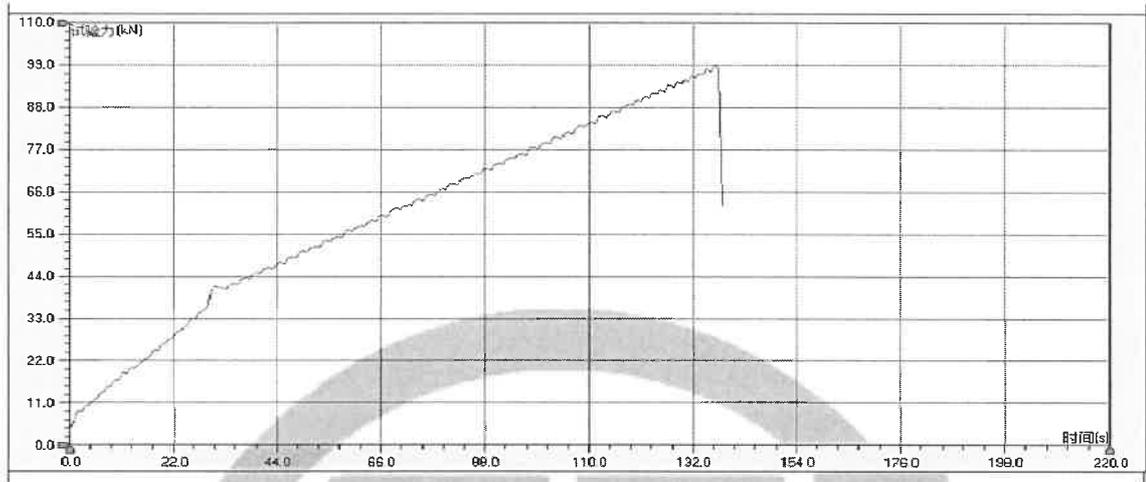


Oscillograms of residual strength test

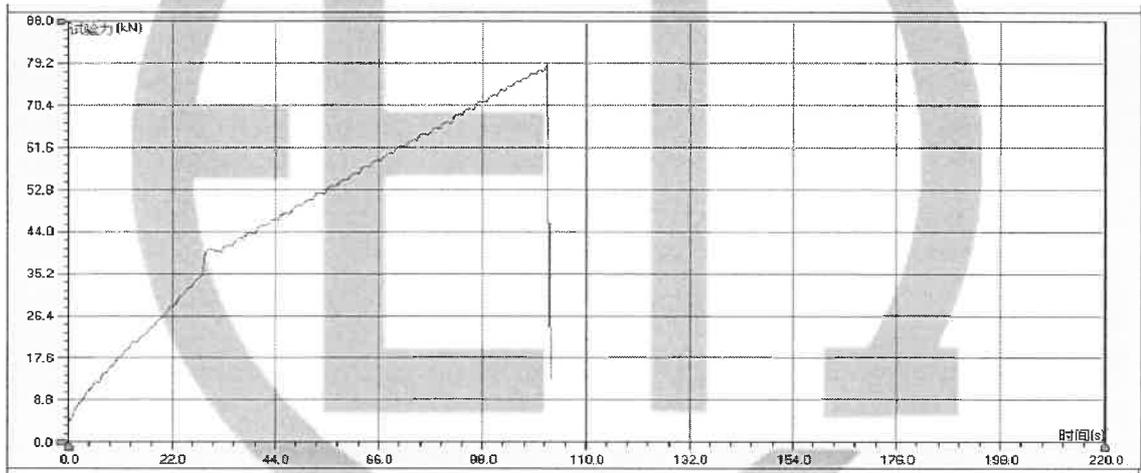
U70B/127
Glass insulator

No: /

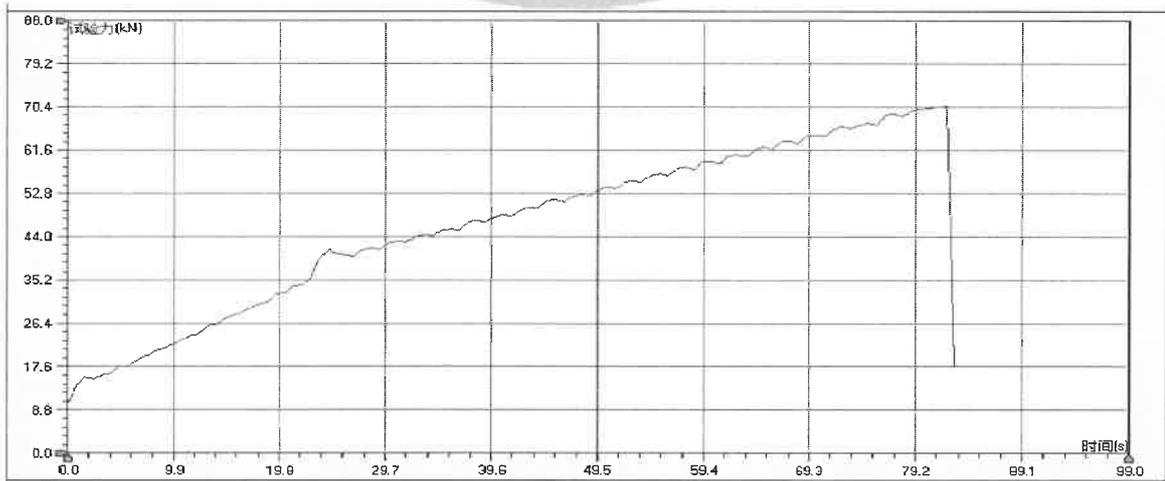
25XJ0170-S-#30



25XJ0170-S-#31



25XJ0170-S-#32

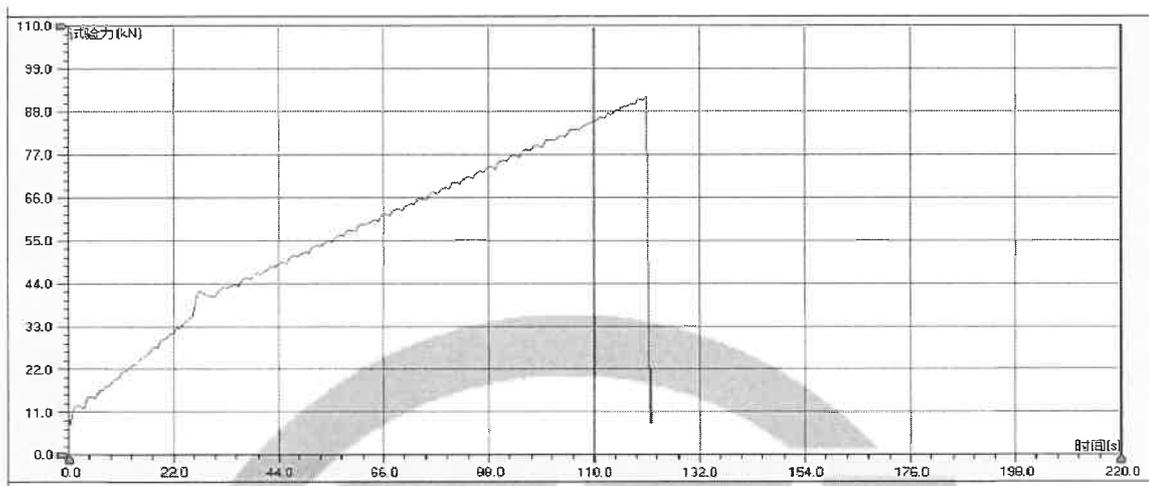


Oscillograms of residual strength test

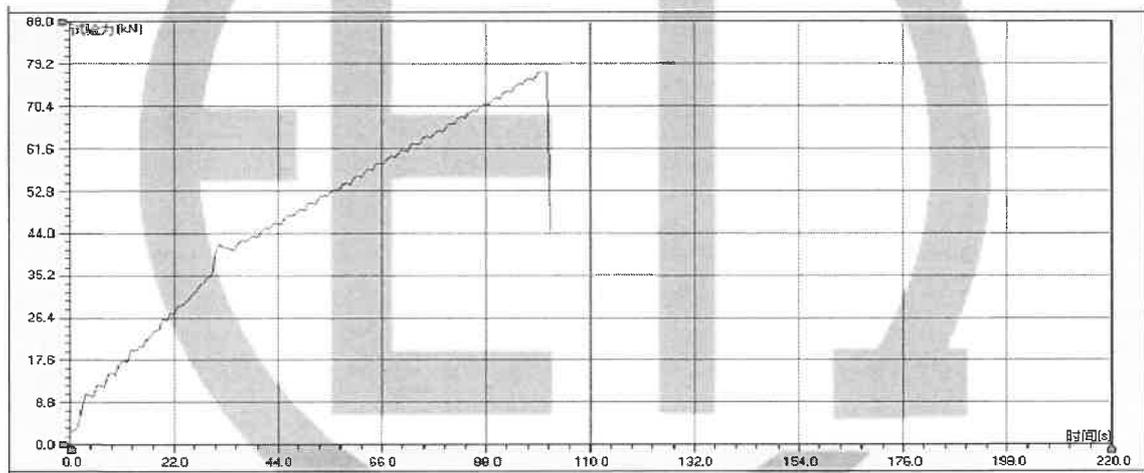
U70B/127
Glass insulator

No: /

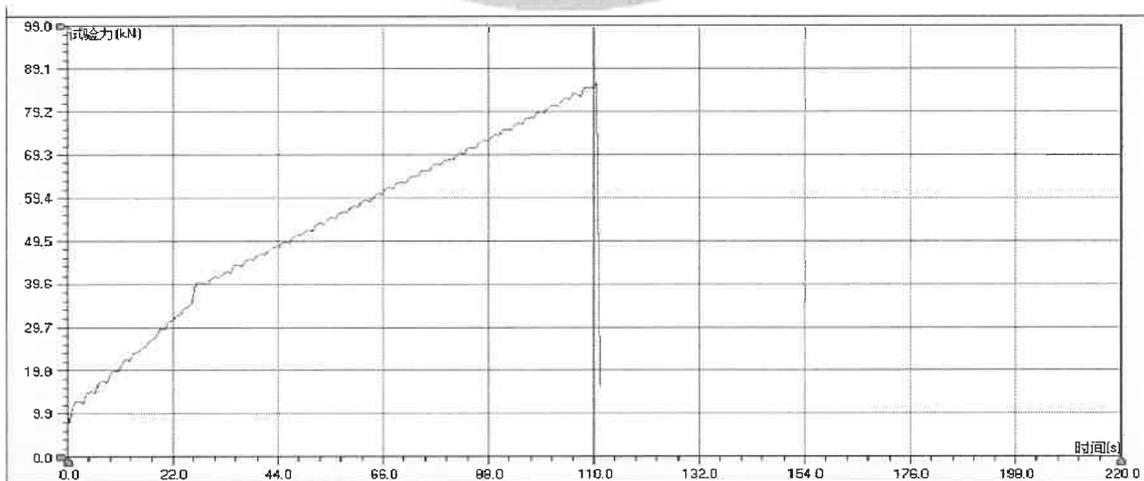
25XJ0170-S-#33



25XJ0170-S-#34



25XJ0170-S-#35

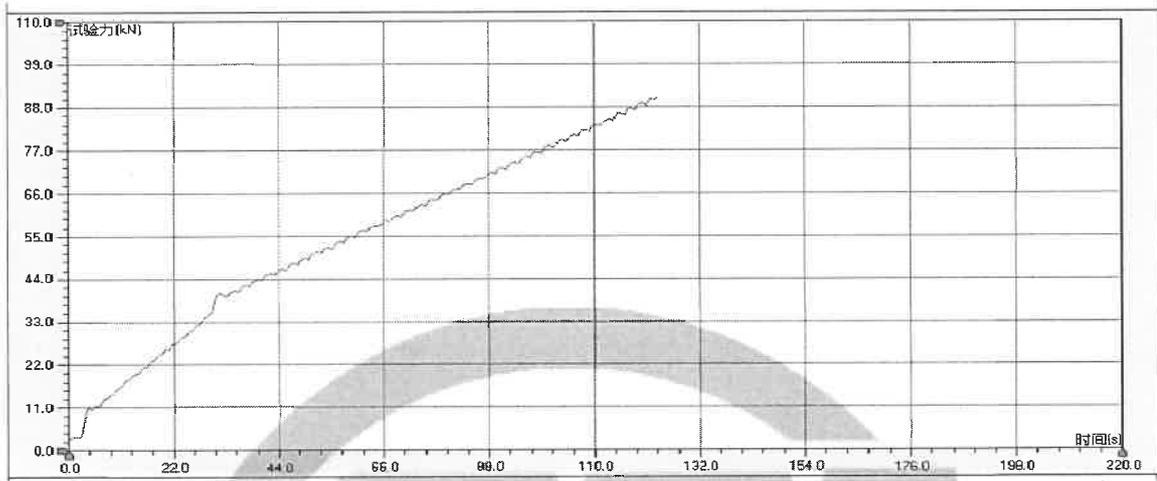


Oscillograms of residual strength test

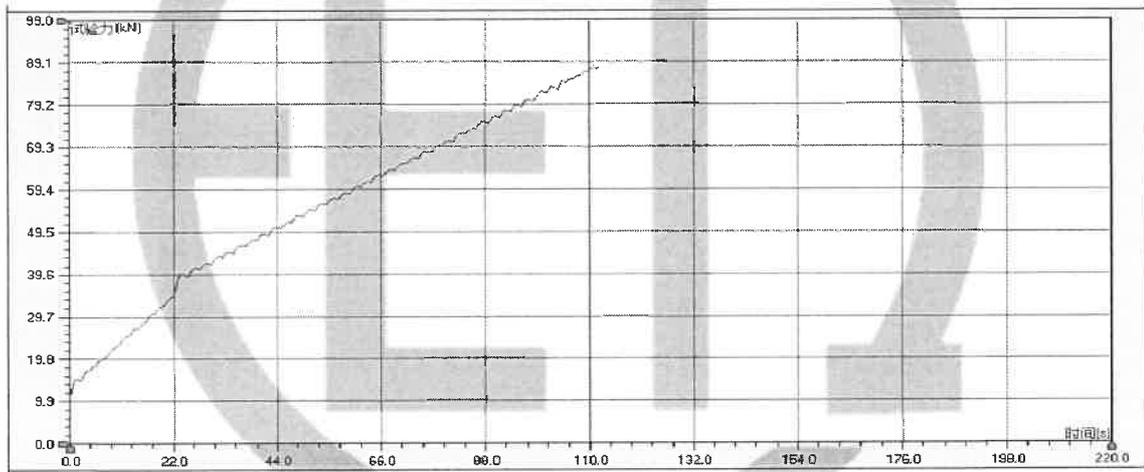
U70B/127
Glass insulator

No: /

25XJ0170-S-#36



25XJ0170-S-#37



25XJ0170-S-#38

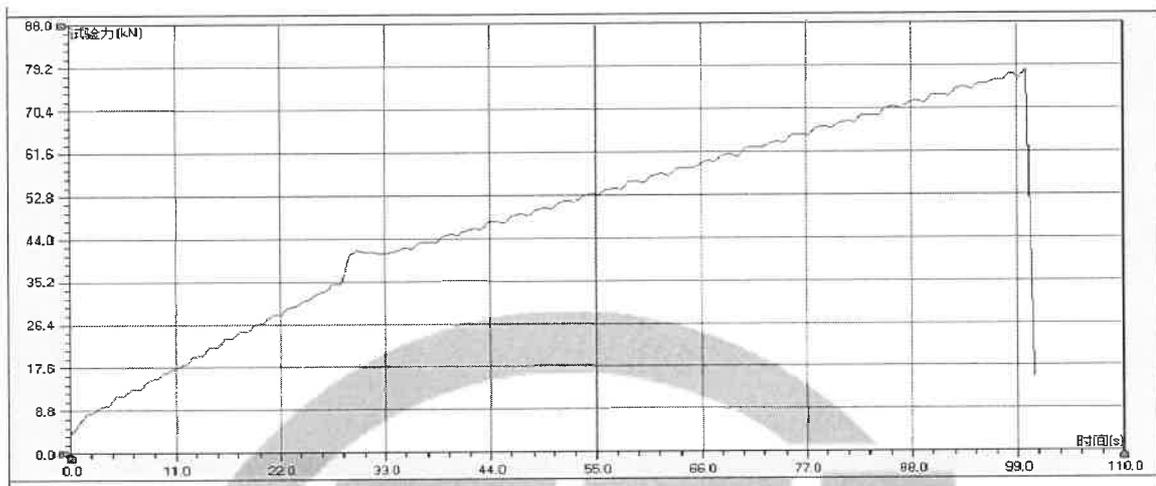


Oscillograms of residual strength test

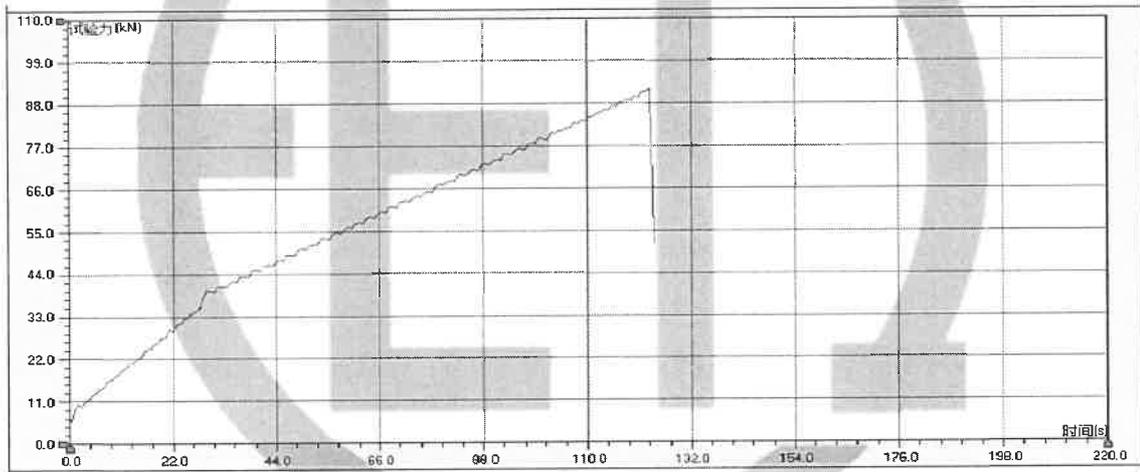
U70B/127
Glass insulator

No: /

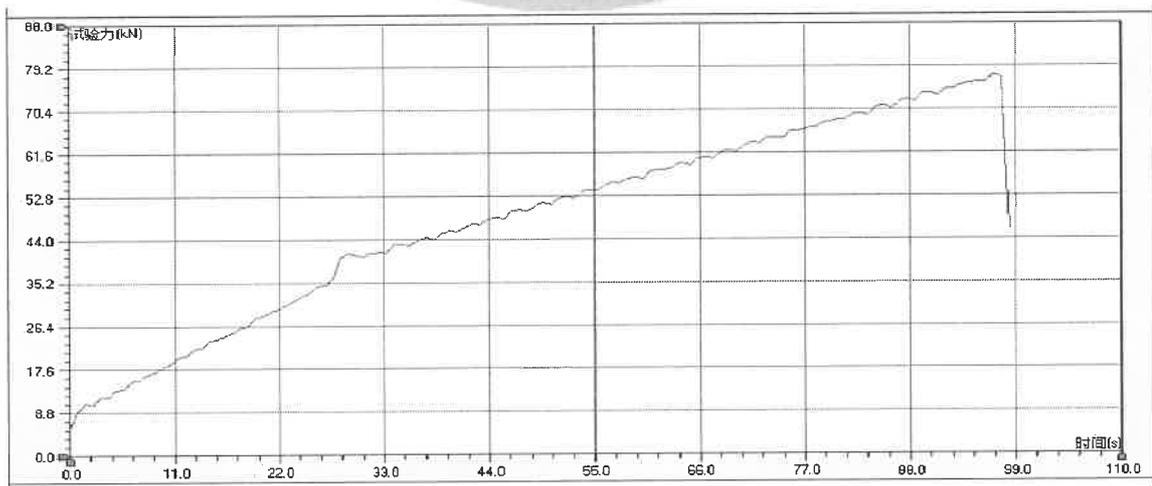
25XJ0170-S-#39



25XJ0170-S-#40



25XJ0170-S-#41

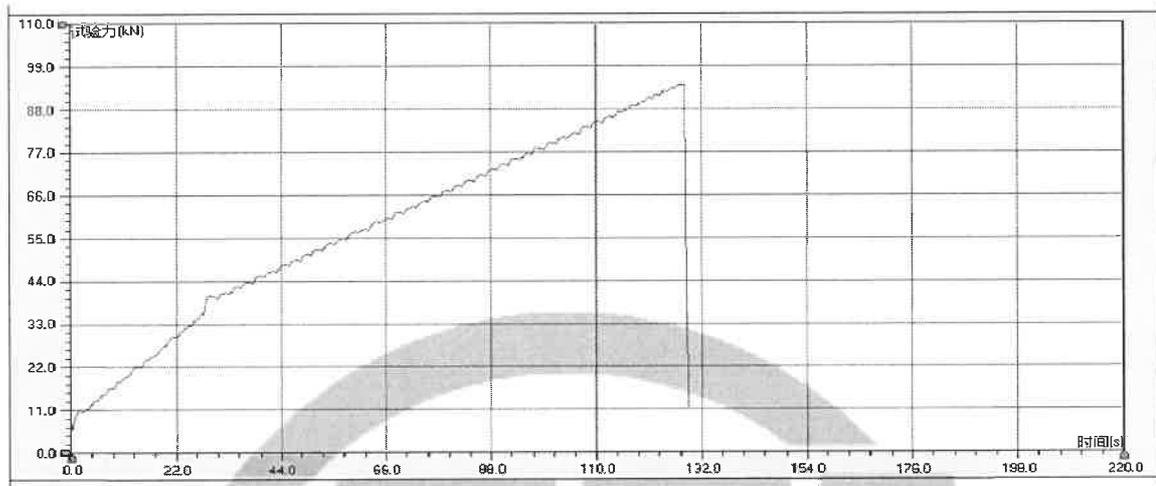


Oscillograms of residual strength test

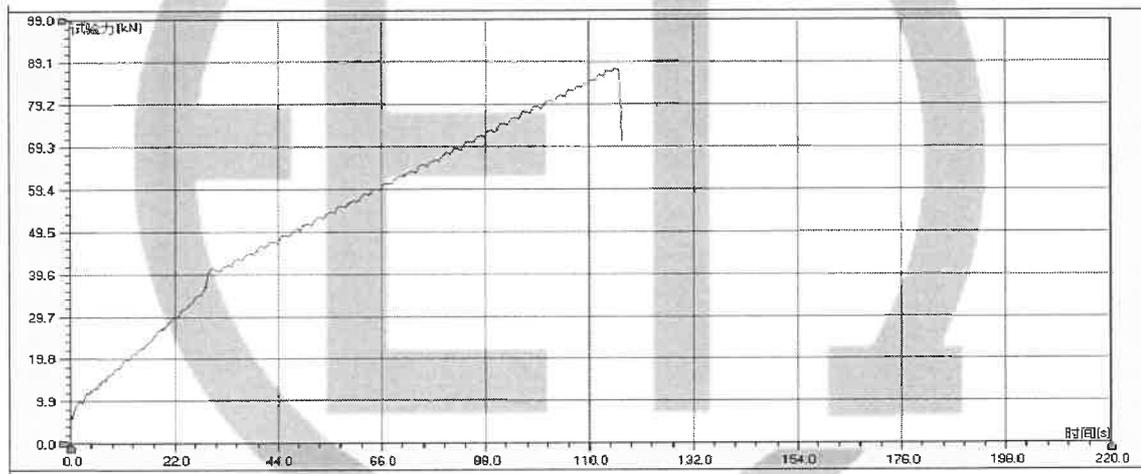
U70B/127
Glass insulator

No: /

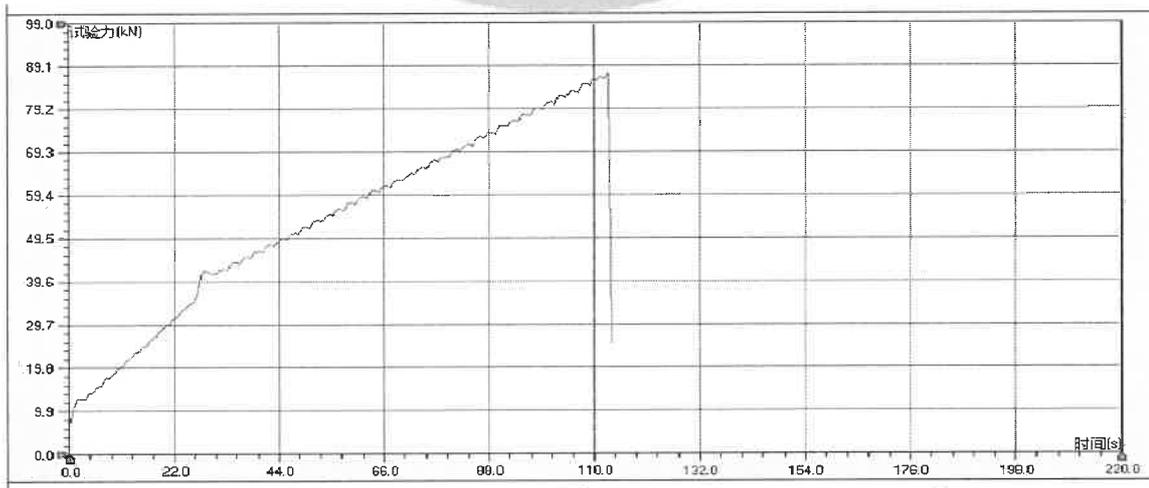
25XJ0170-S-#42



25XJ0170-S-#43



25XJ0170-S-#44

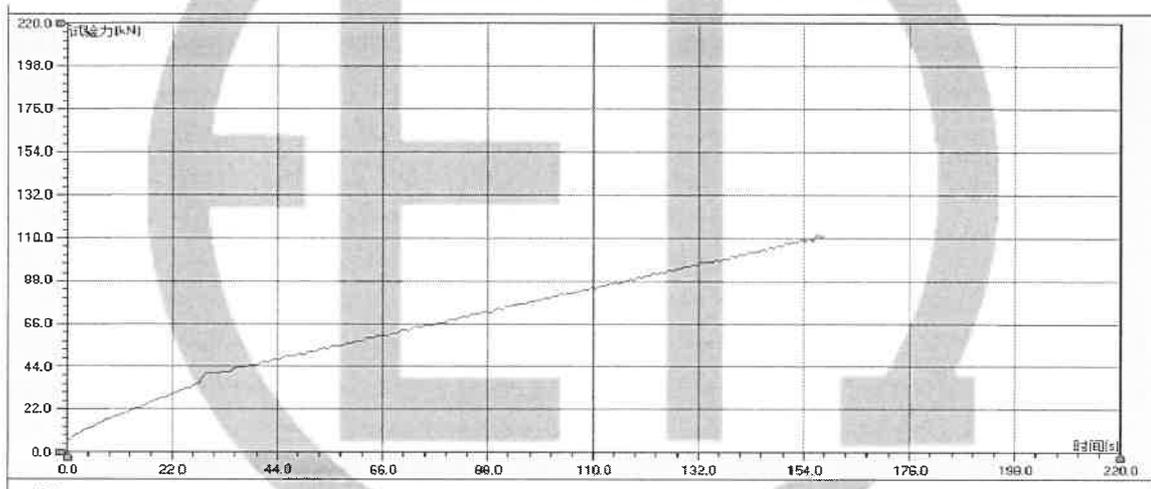


Oscillograms of residual strength test

U70B/127
Glass insulator

No: /

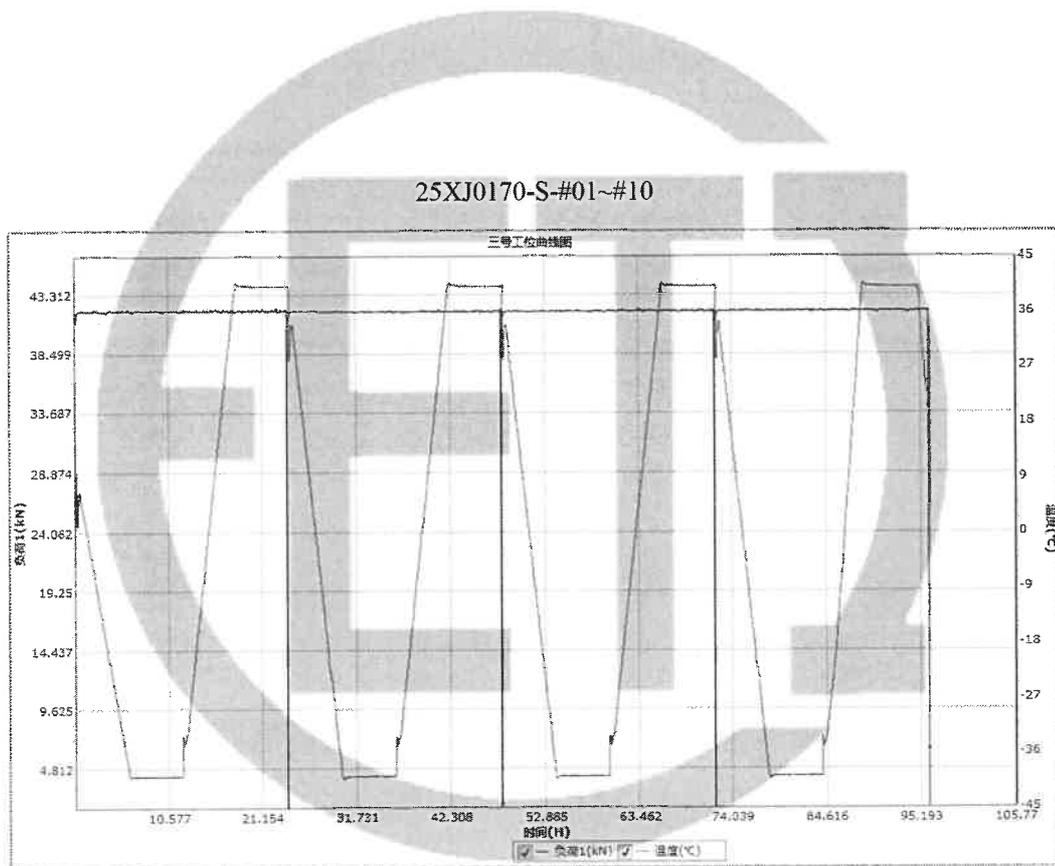
25XJ0170-S-#45



Oscillograms of thermal-mechanical performance test

U70B/127
Glass insulator

No: /

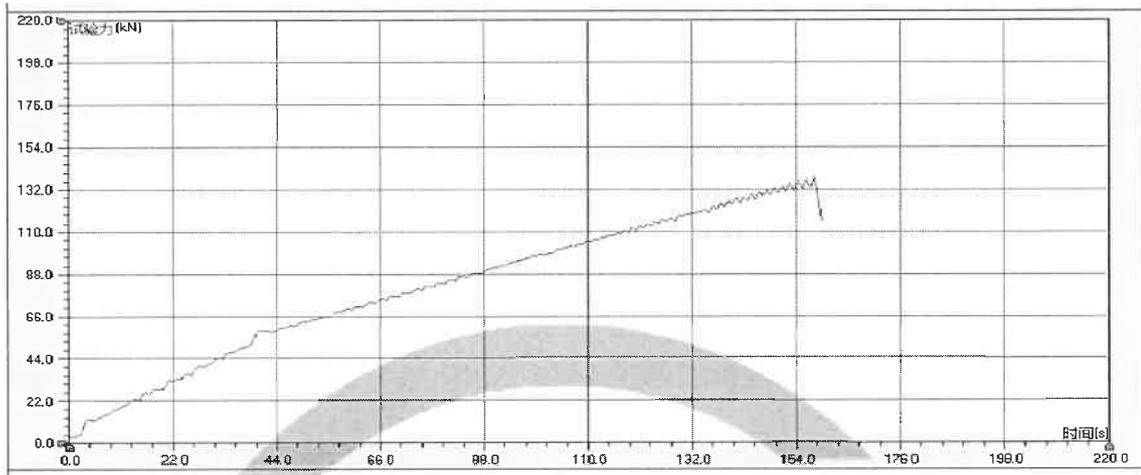


Oscillograms of thermal-mechanical performance test (mechanical failing load test)

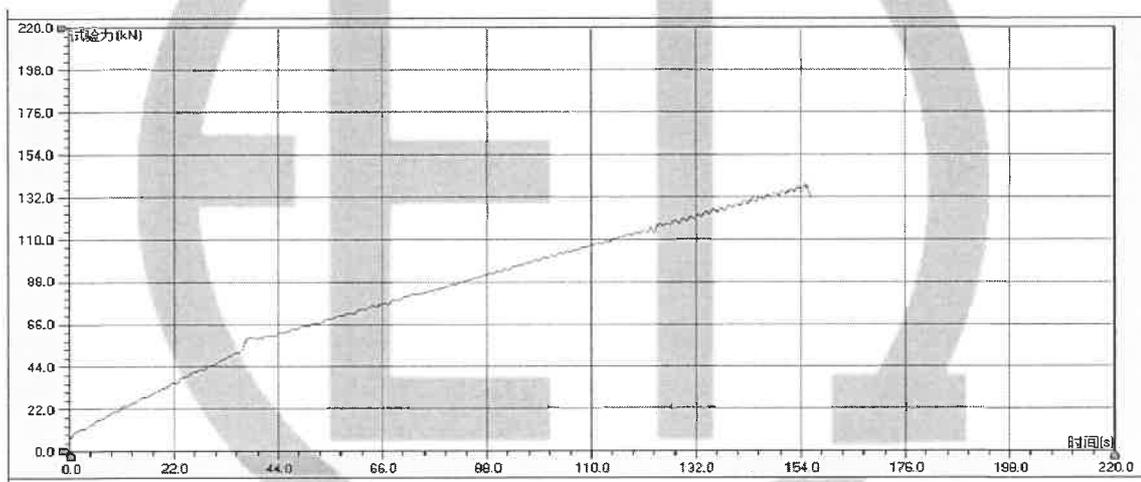
U70B/127
Glass insulator

No: /

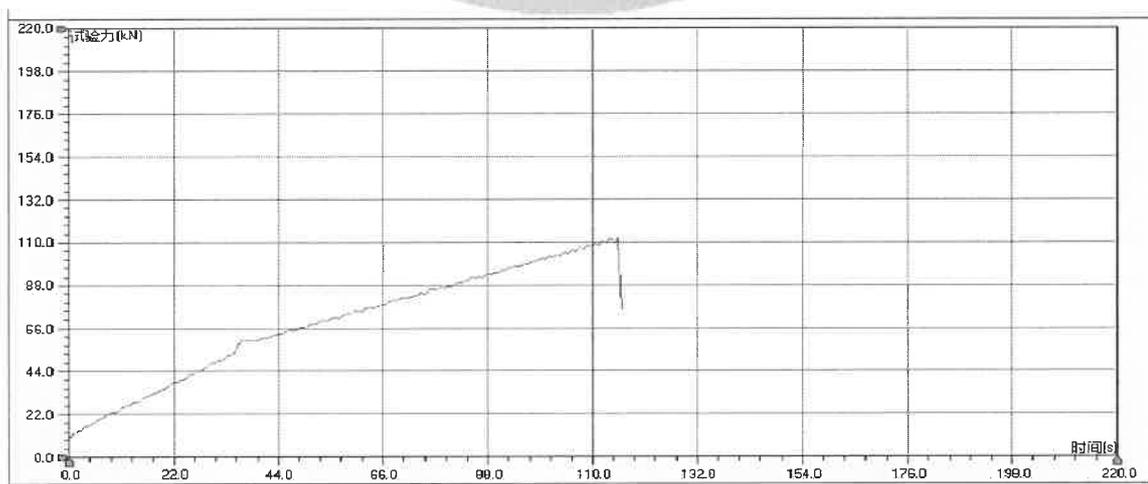
25XJ0170-S-#01



25XJ0170-S-#02



25XJ0170-S-#03

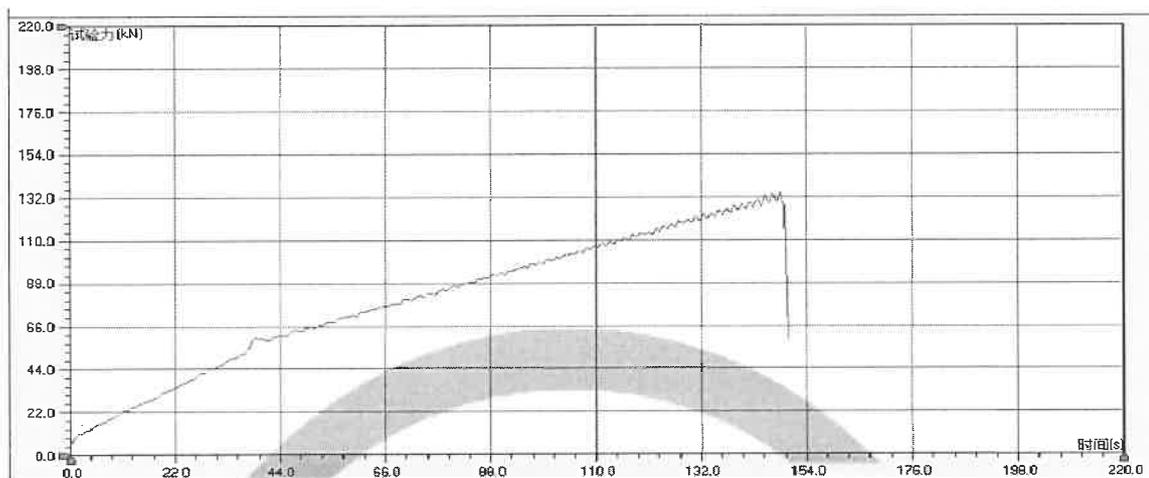


Oscillograms of thermal-mechanical performance test (mechanical failing load test)

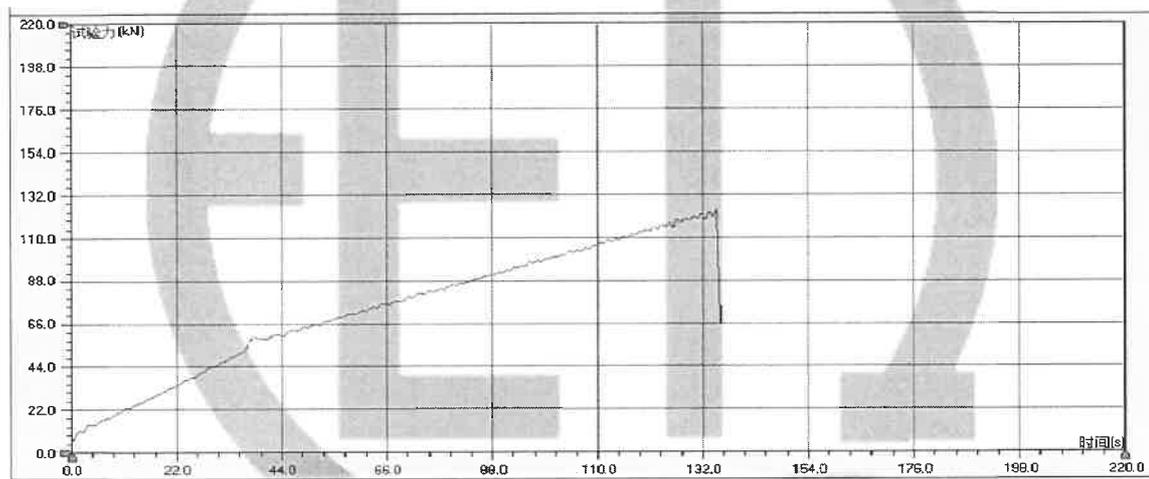
U70B/127
Glass insulator

No: /

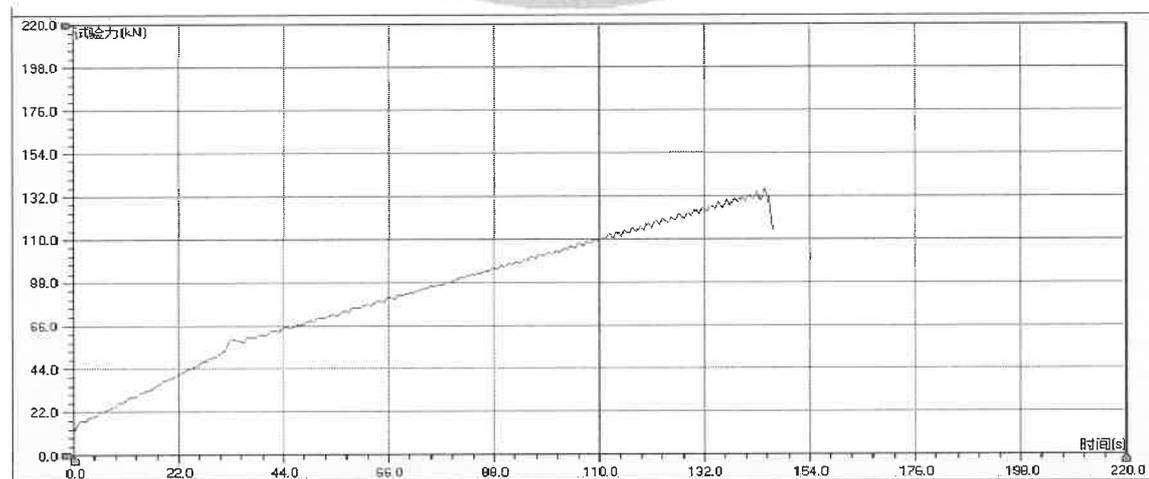
25XJ0170-S-#04



25XJ0170-S-#05



25XJ0170-S-#06

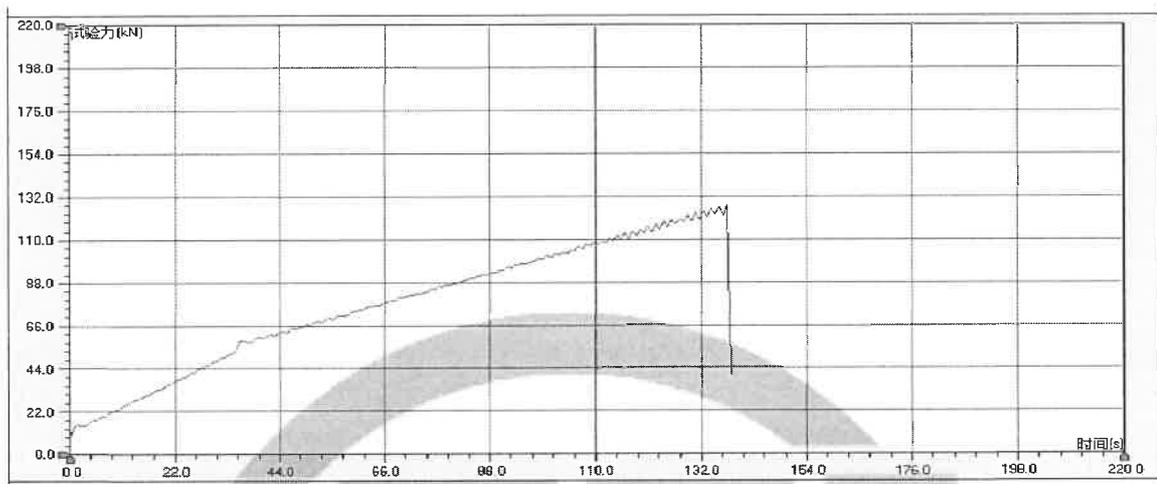


Oscillograms of thermal-mechanical performance test (mechanical failing load test)

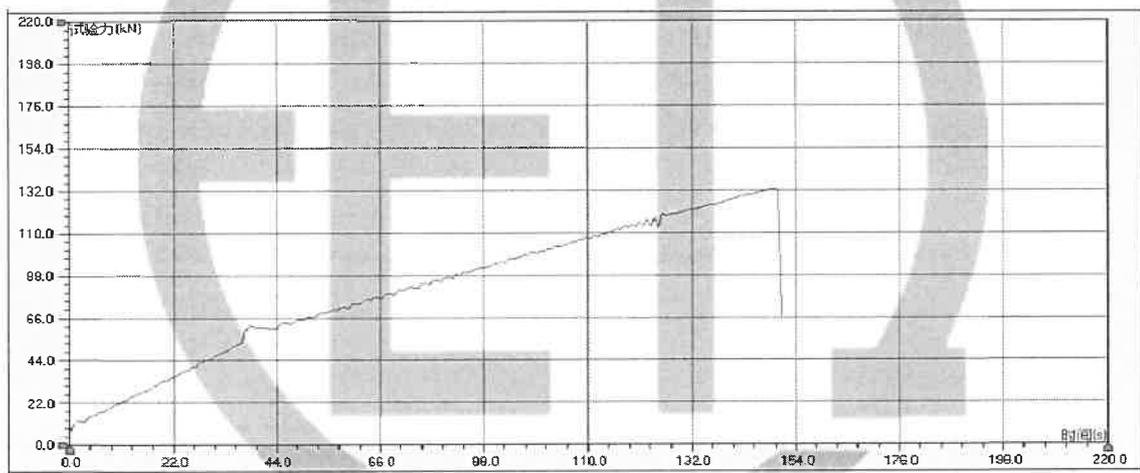
U70B/127
Glass insulator

No: /

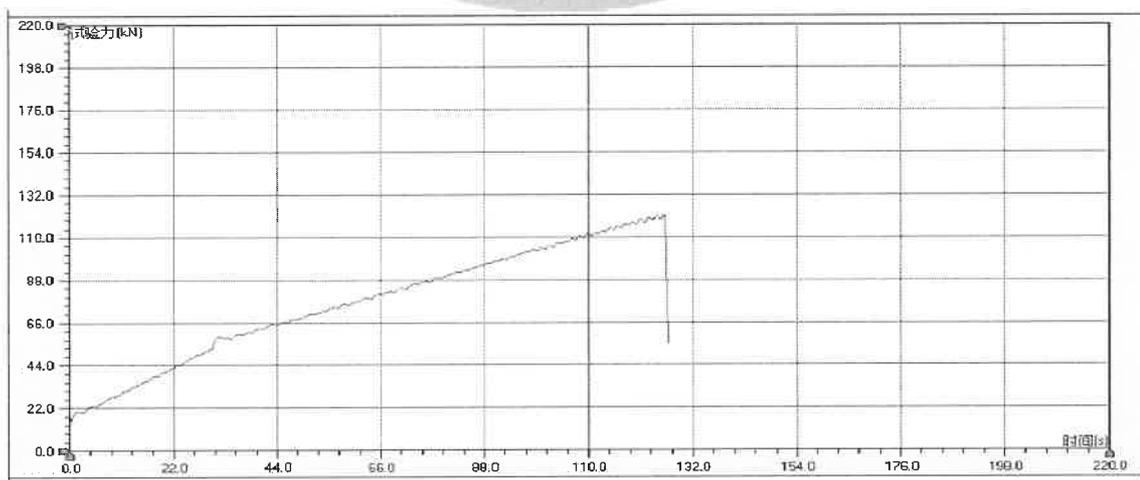
25XJ0170-S-#07



25XJ0170-S-#08



25XJ0170-S-#09

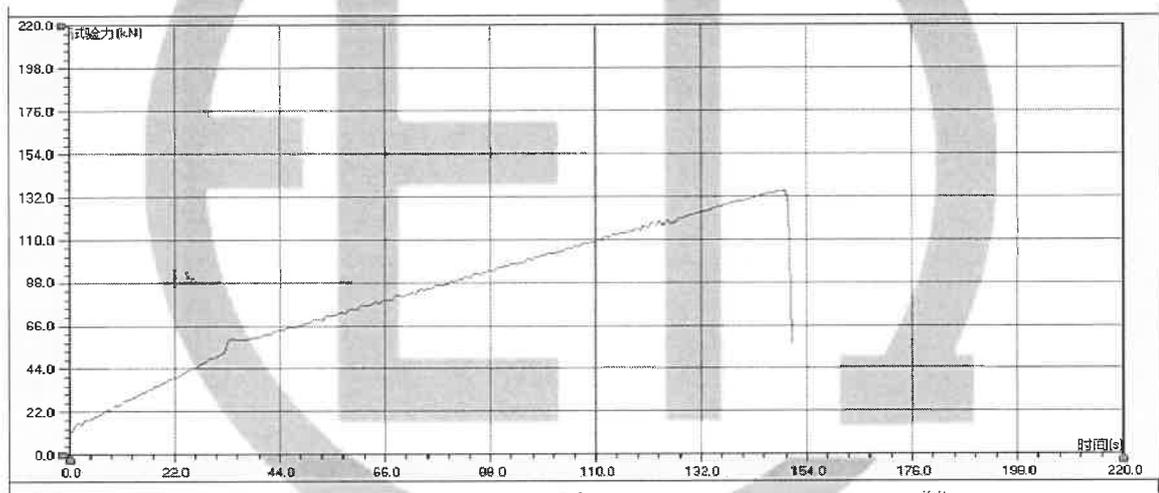


Oscillograms of thermal-mechanical performance test (mechanical failing load test)

U70B/127
Glass insulator

No: /

25XJ0170-S-#10

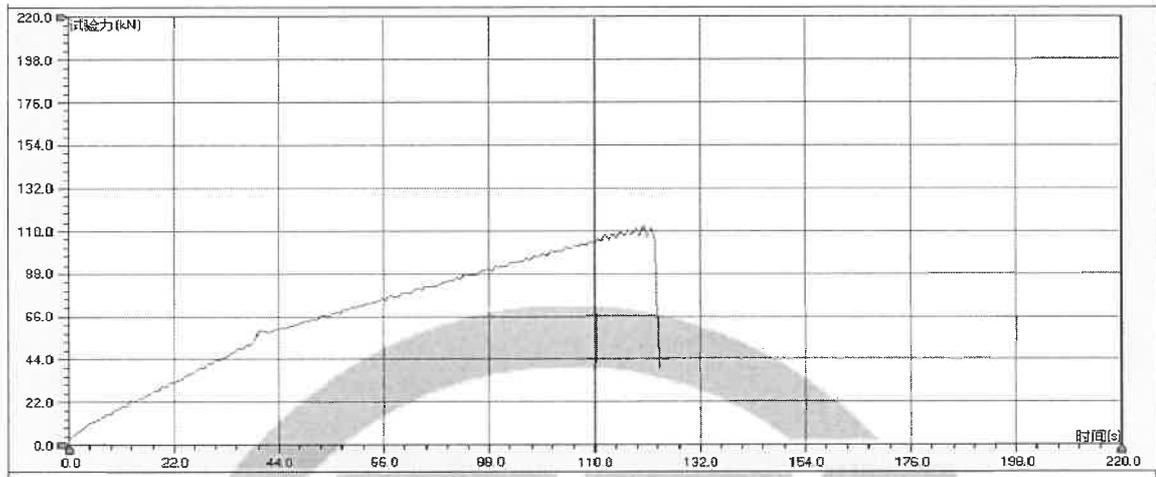


Oscillograms of mechanical failing
load test

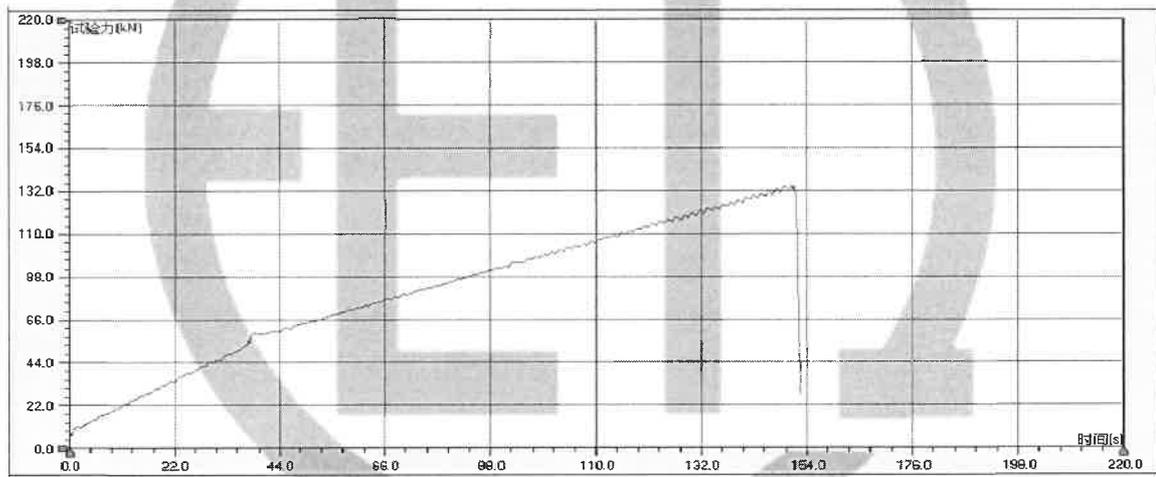
U70B/127
Glass insulator

No: /

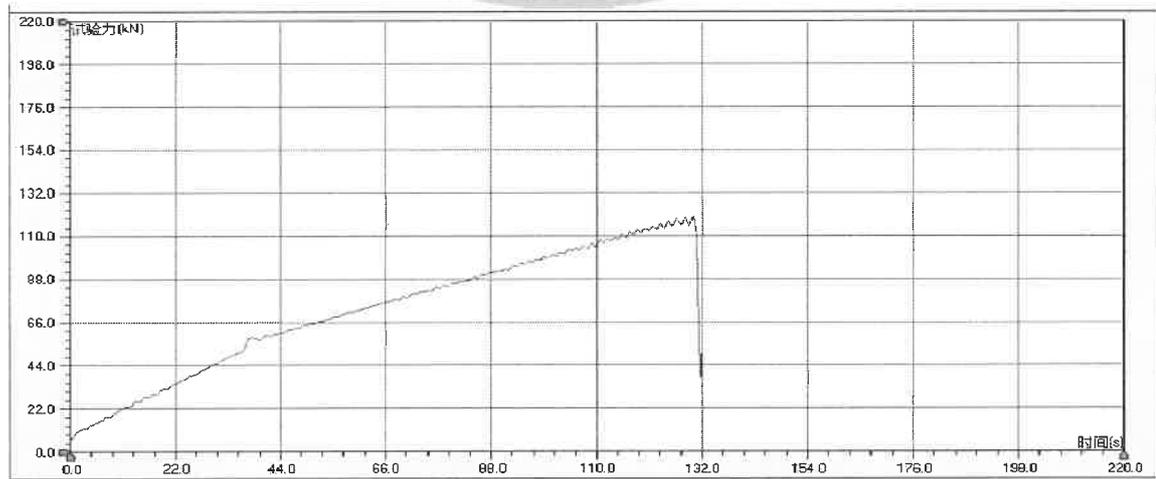
25XJ0170-S-#11



25XJ0170-S-#12



25XJ0170-S-#13

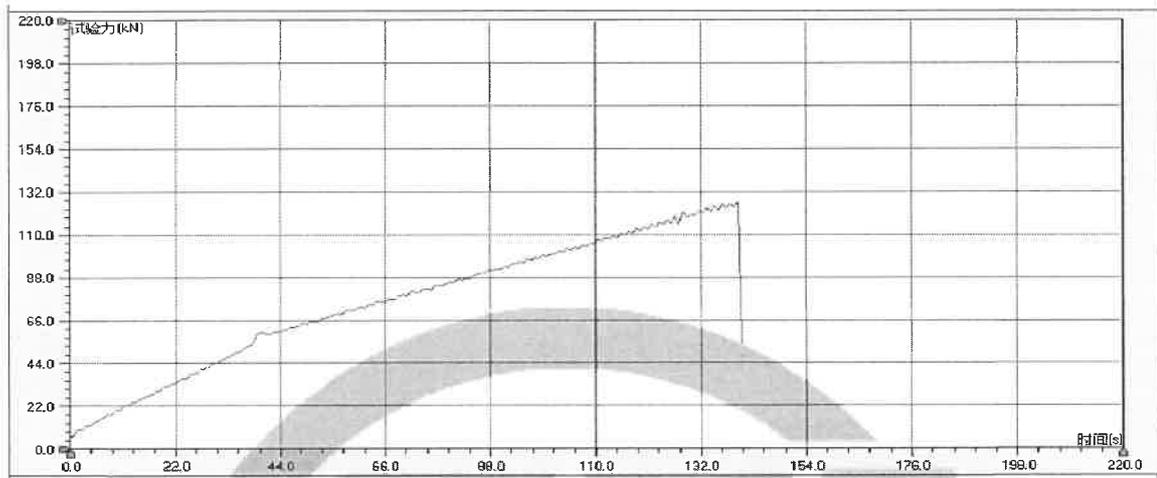


Oscillograms of mechanical failing
load test

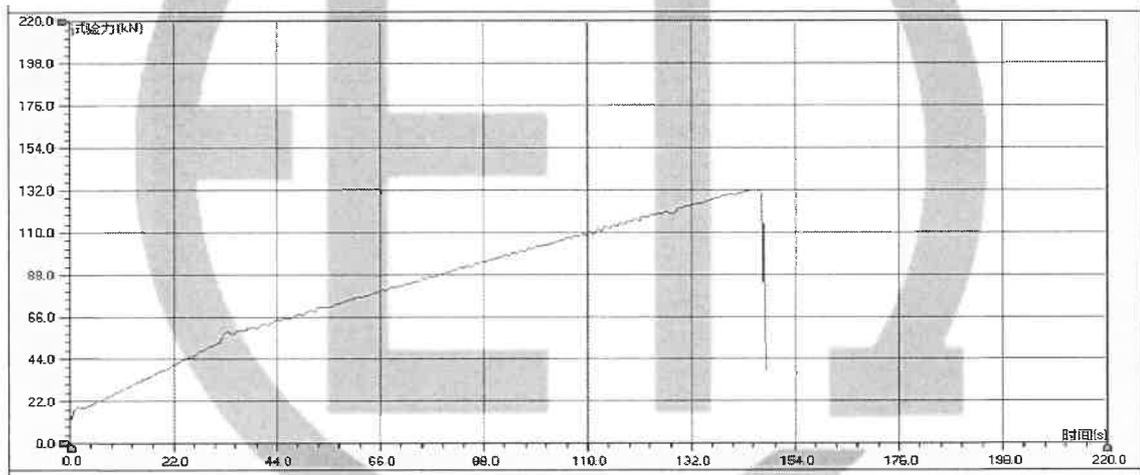
U70B/127
Glass insulator

No: /

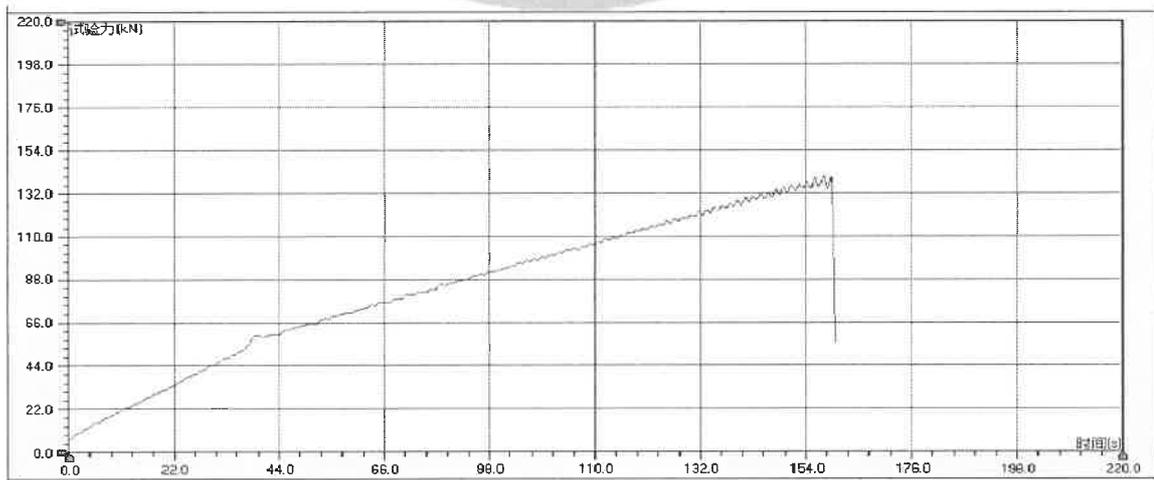
25XJ0170-S-#14



25XJ0170-S-#15



25XJ0170-S-#16

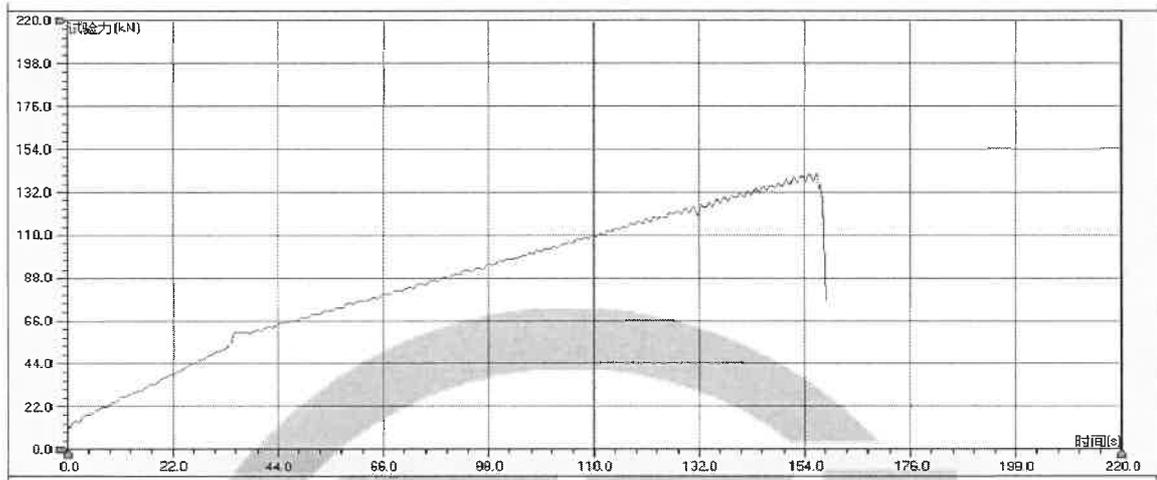


Oscillograms of mechanical failing
load test

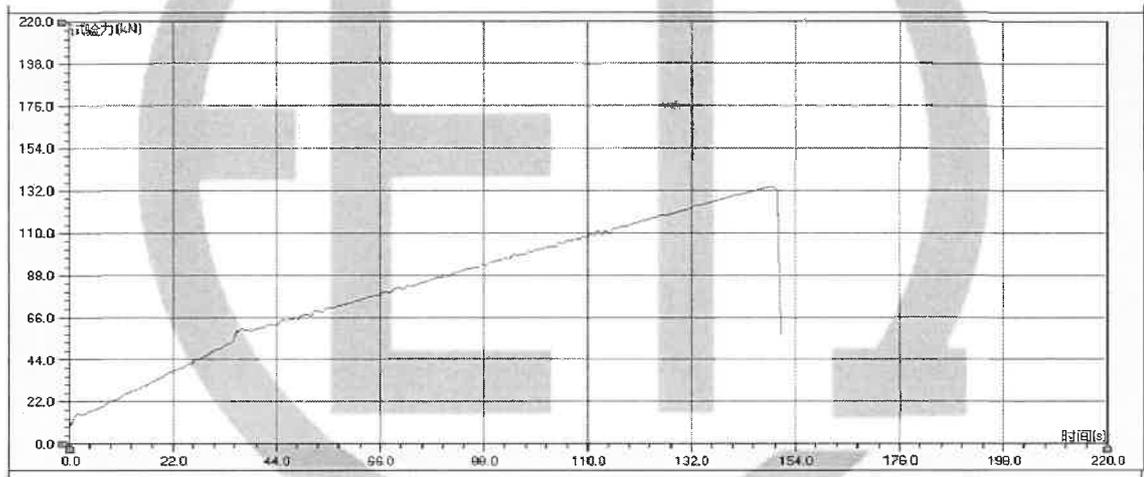
U70B/127
Glass insulator

No: /

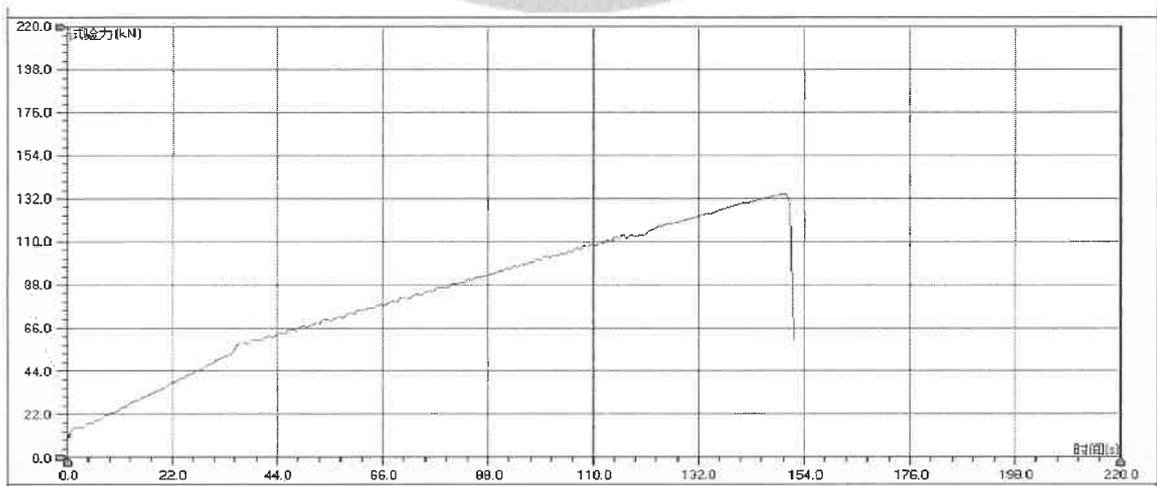
25XJ0170-S-#17



25XJ0170-S-#18



25XJ0170-S-#19

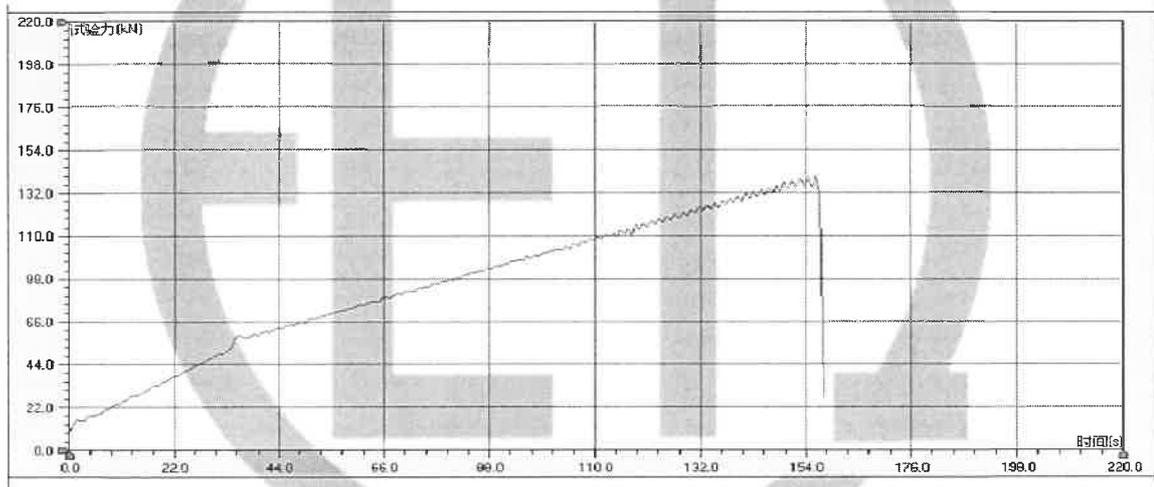


Oscillograms of mechanical failing
load test

U70B/127
Glass insulator

No: /

25XJ0170-S-#20

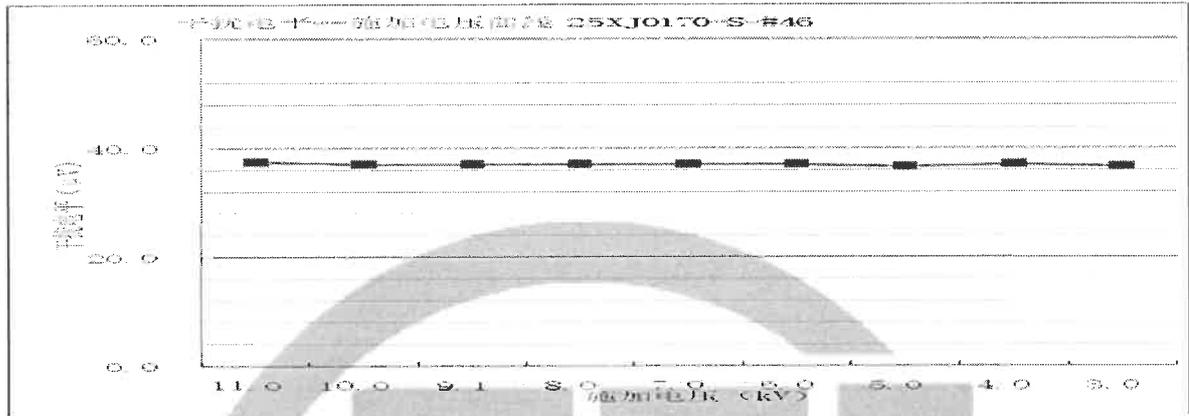


Oscillograms of radio interference
voltage (RIV) test

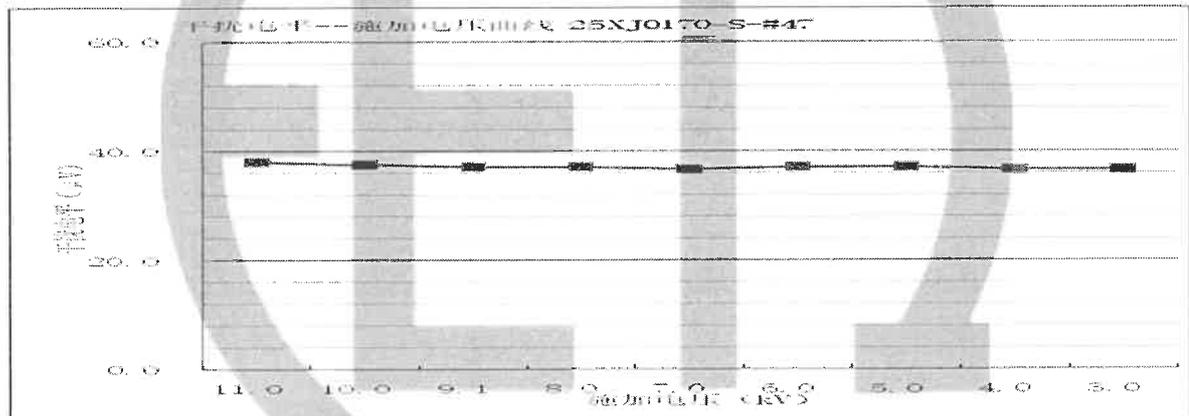
U70B/127
Glass insulator

No: /

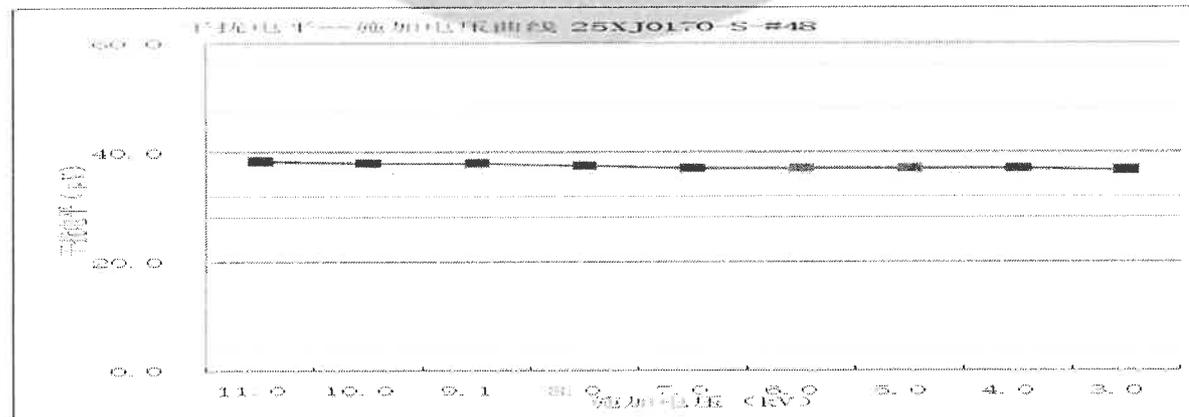
25XJ0170-S-#46



25XJ0170-S-#47



25XJ0170-S-#48

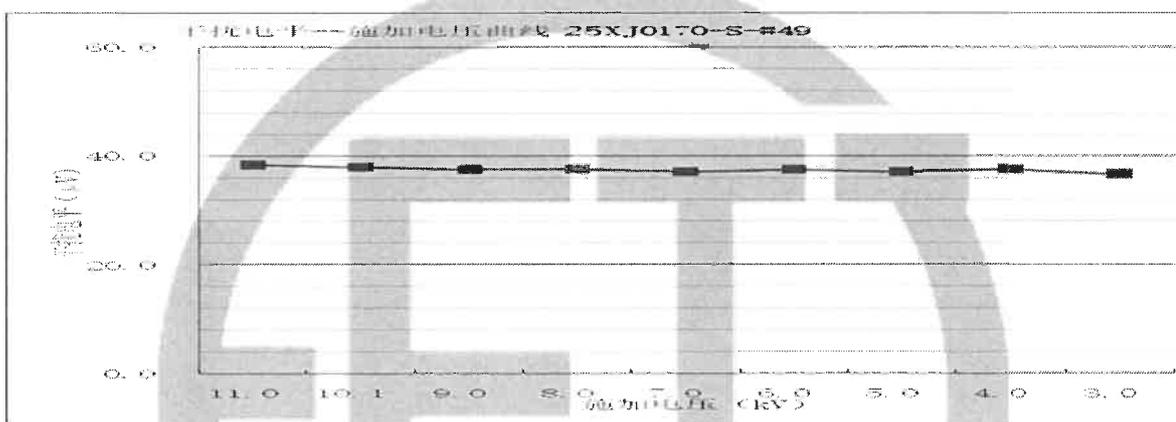


Oscillograms of radio interference
voltage (RIV) test

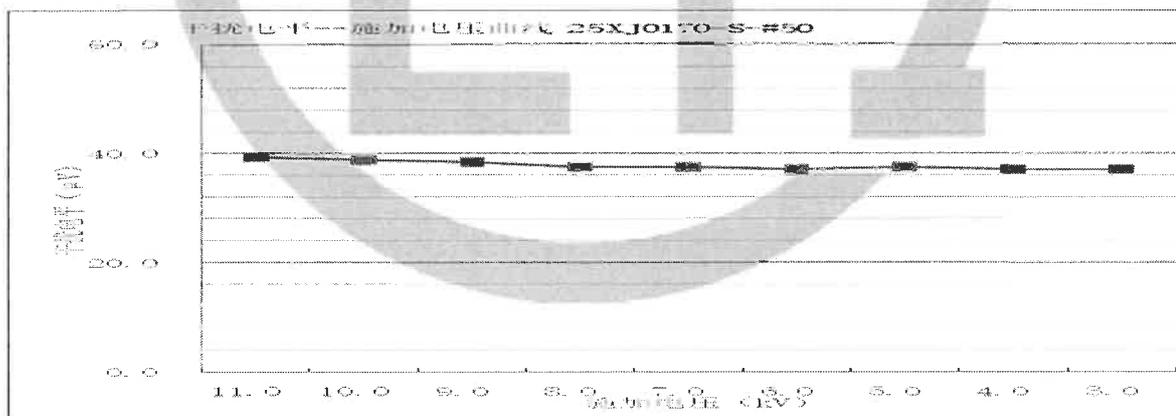
U70B/127
Glass insulator

No: /

25XJ0170-S-#49



25XJ0170-S-#50



Oscillograms of radio interference
voltage (RIV) test

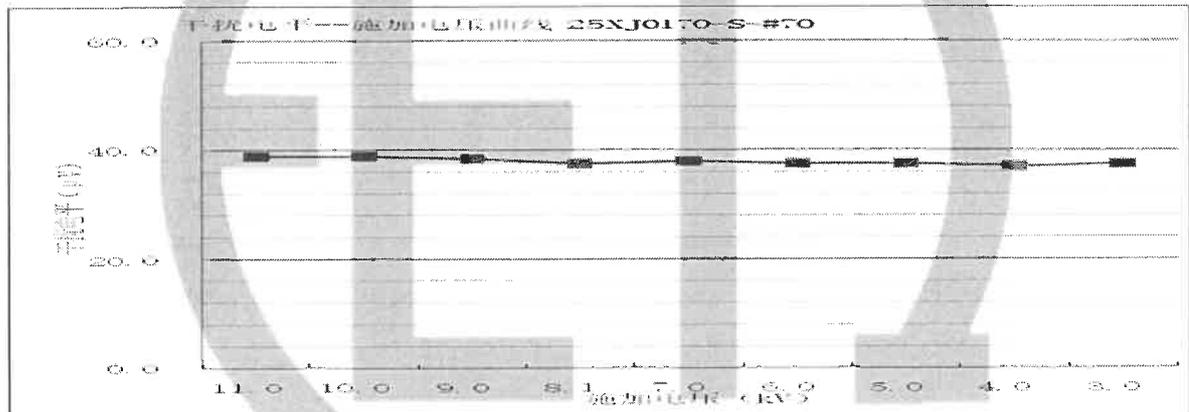
U70B/127
Glass insulator

No: /

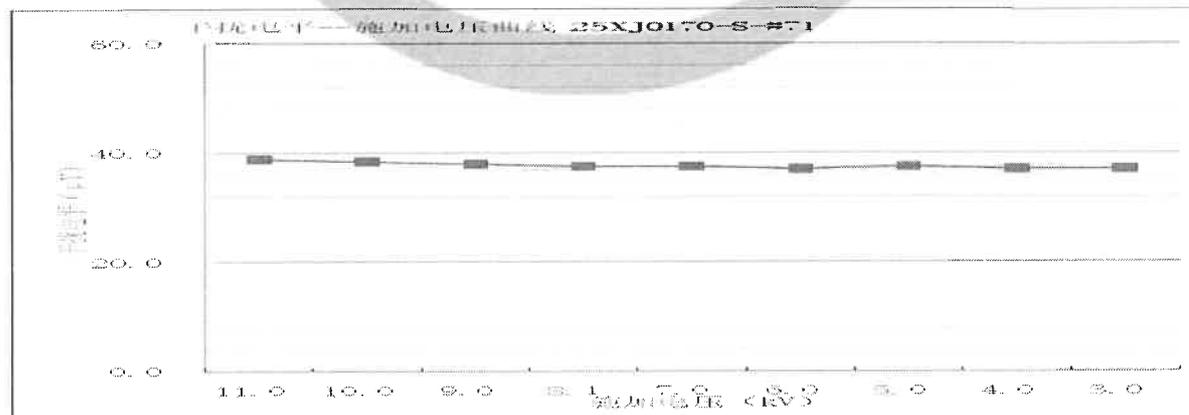
25XJ0170-S-#69



25XJ0170-S-#70



25XJ0170-S-#71

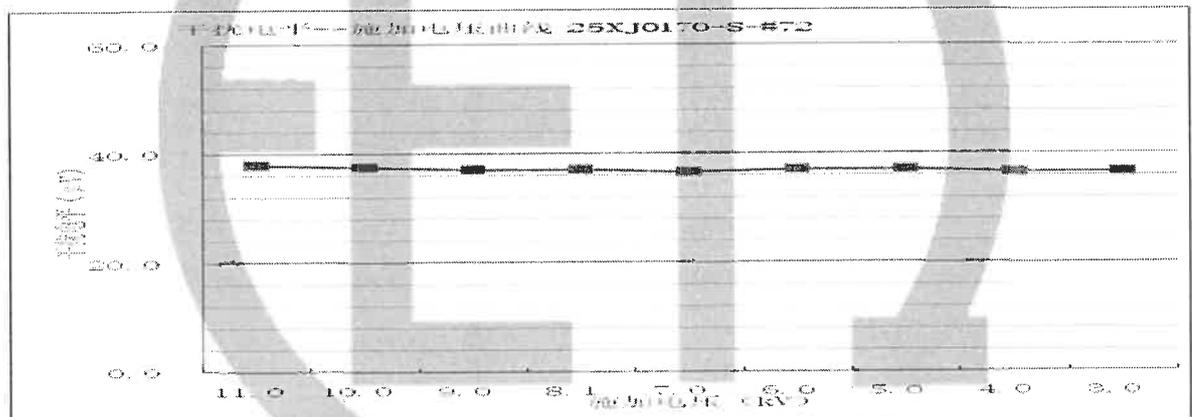


Oscillograms of radio interference
voltage (RIV) test

U70B/127
Glass insulator

No: /

25XJ0170-S-#72

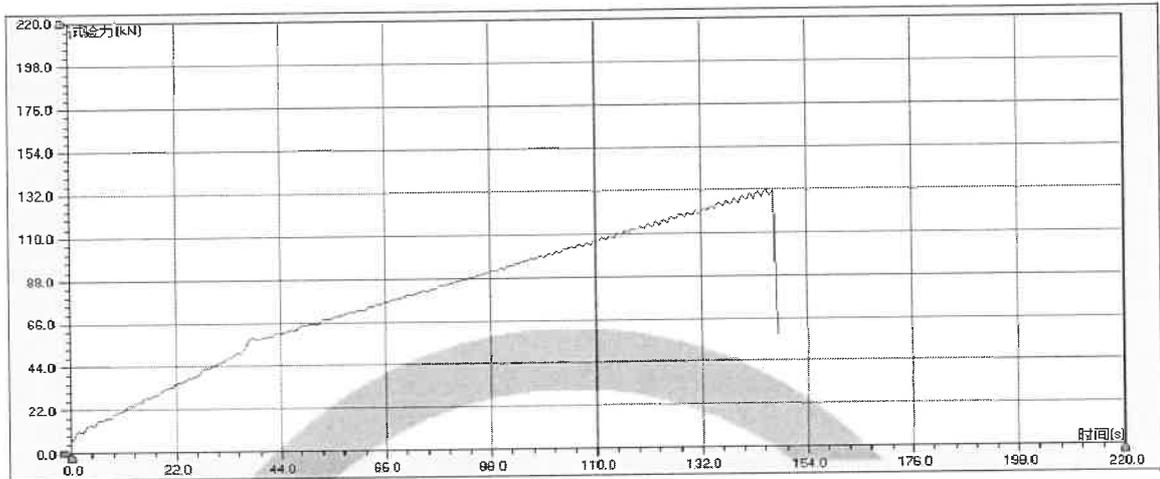


Oscillograms of mechanical failing
load test

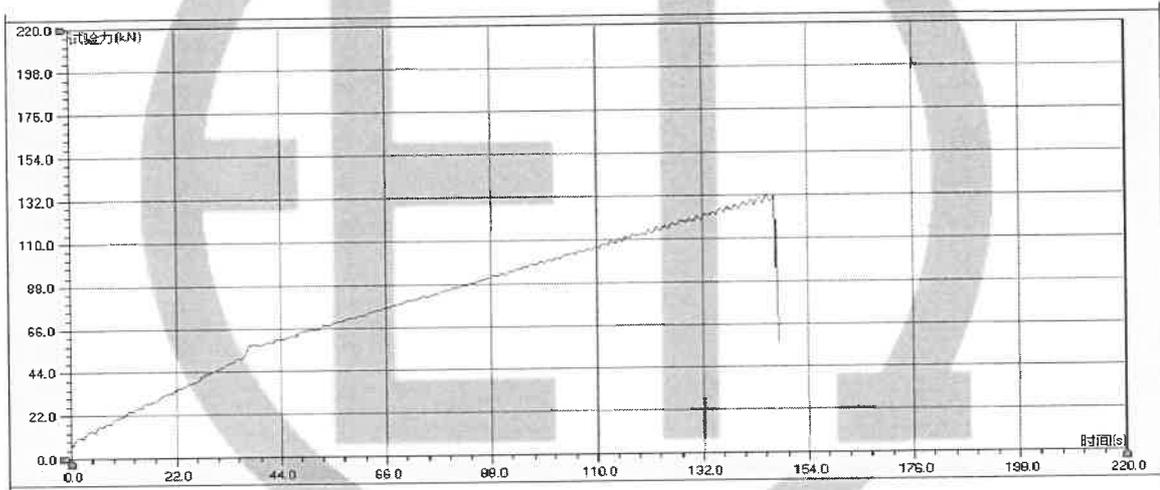
U70B/127
Glass insulator

No: /

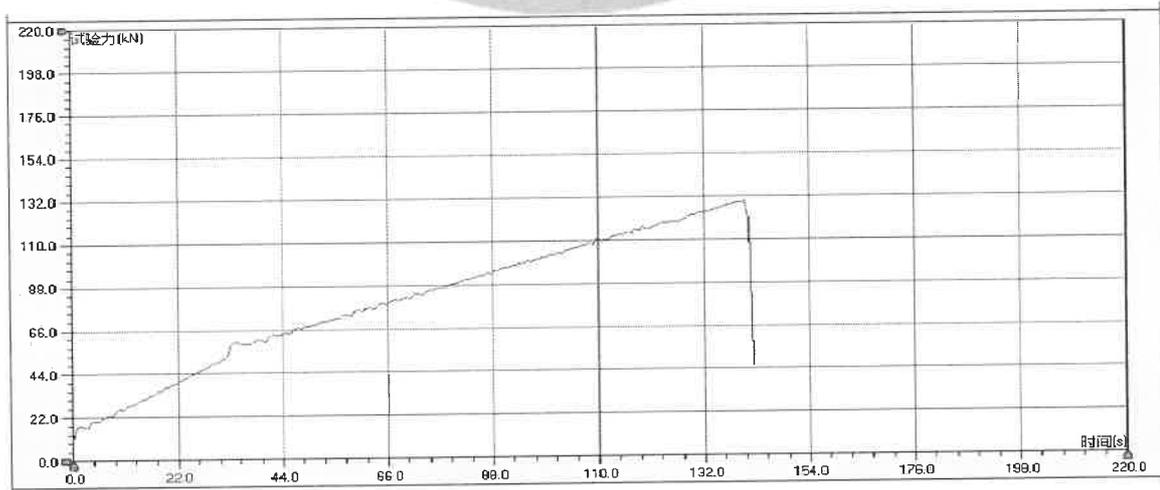
25XJ0170-S-#61



25XJ0170-S-#62



25XJ0170-S-#63

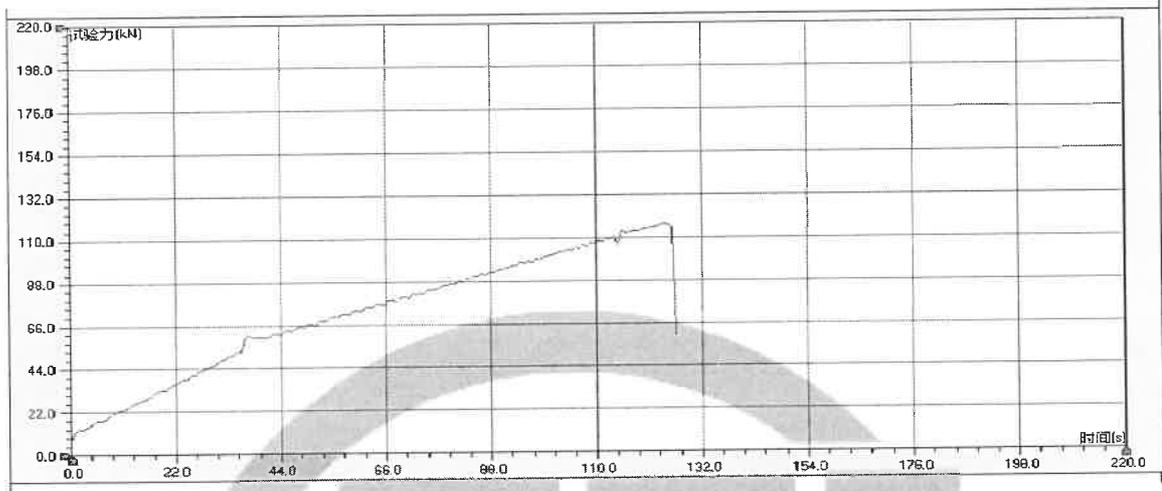


Oscillograms of mechanical failing load test

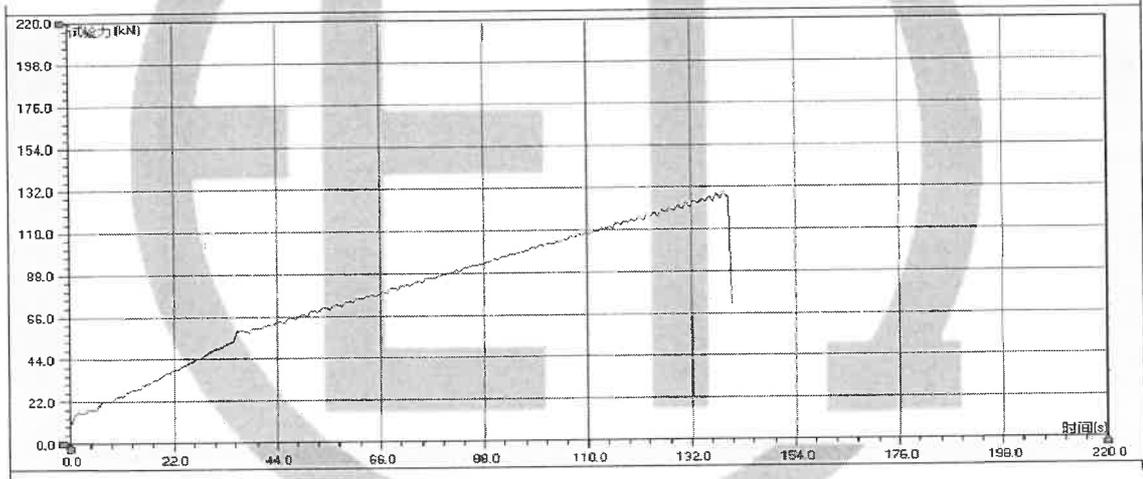
U70B/127
Glass insulator

No: /

25XJ0170-S-#64



25XJ0170-S-#65



25XJ0170-S-#66

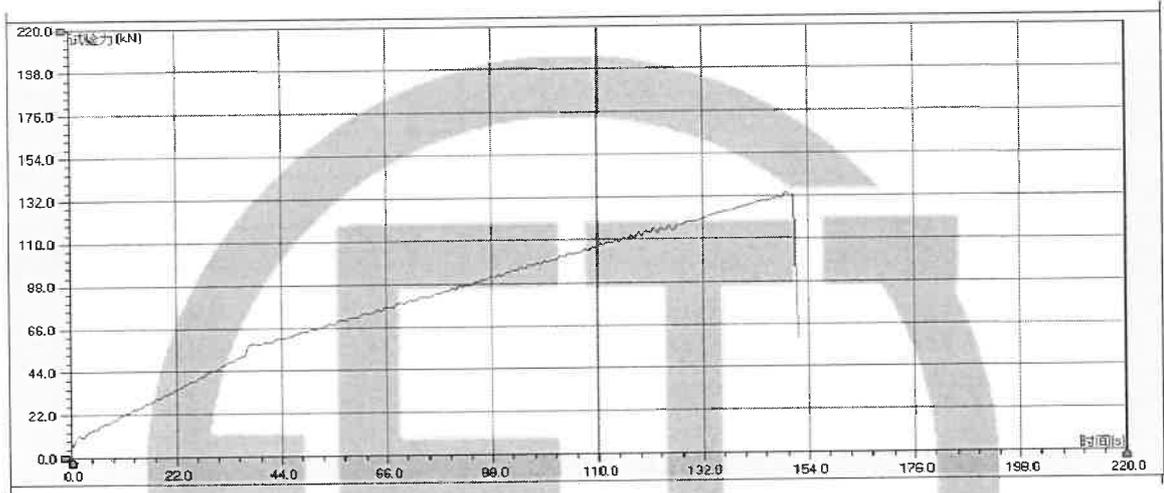


Oscillograms of mechanical failing load test

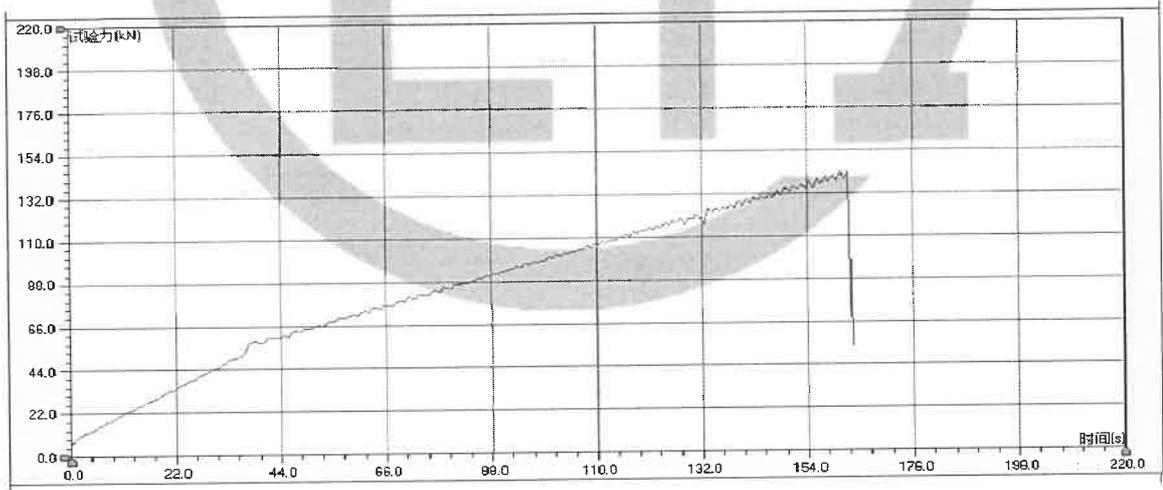
U70B/127
Glass insulator

No: /

25XJ0170-S-#67



25XJ0170-S-#68

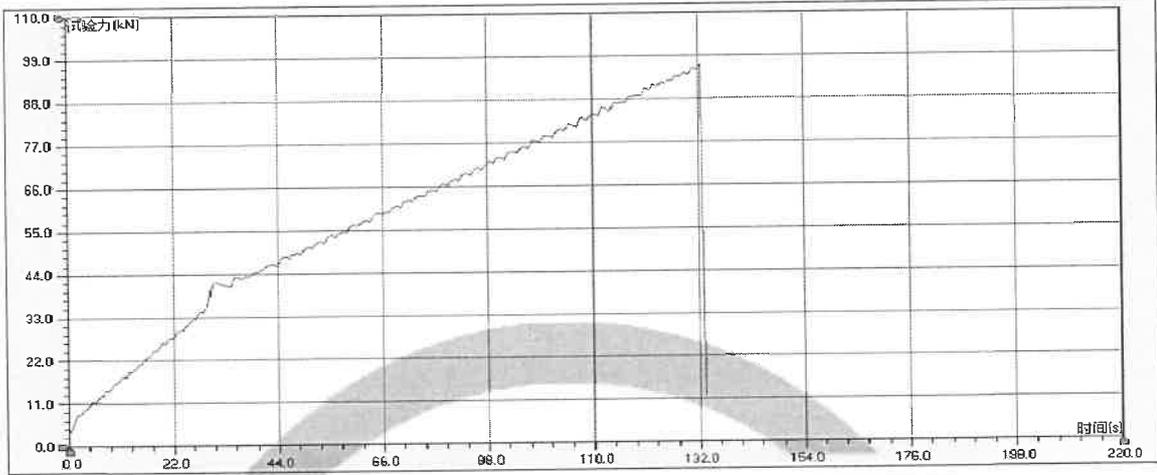


Oscillograms of residual strength test

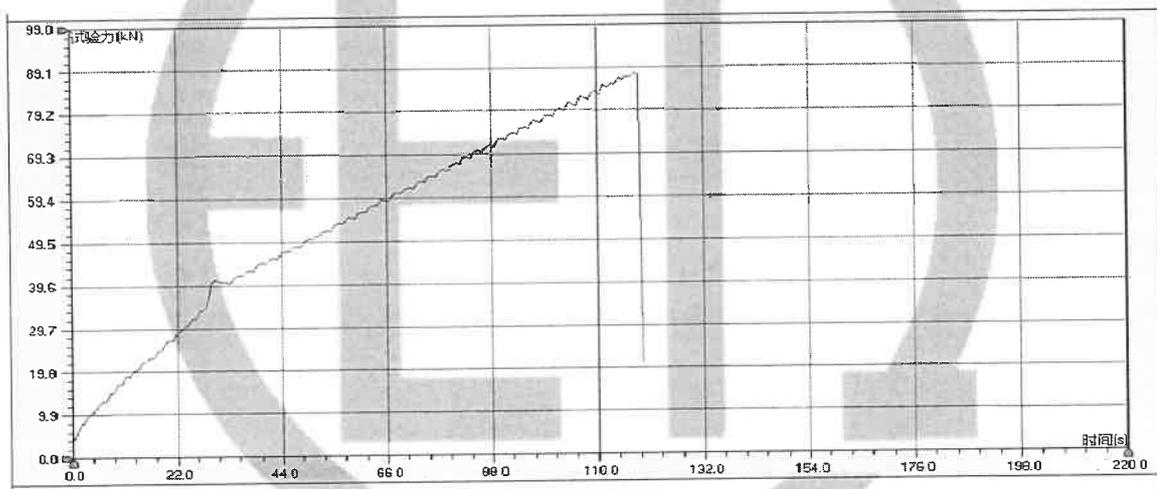
U70B/127
Glass insulator

No: /

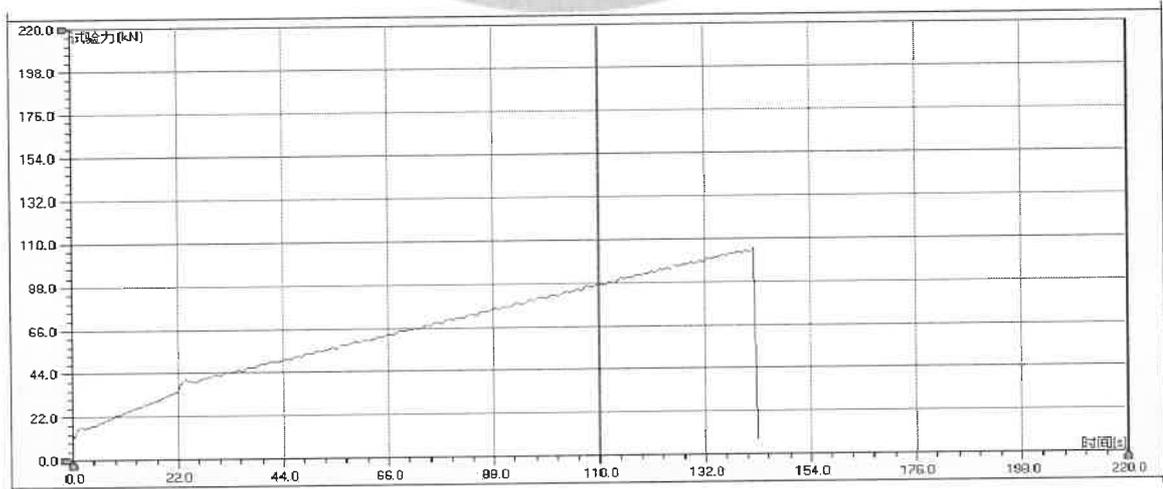
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25XJ0170-S-#75

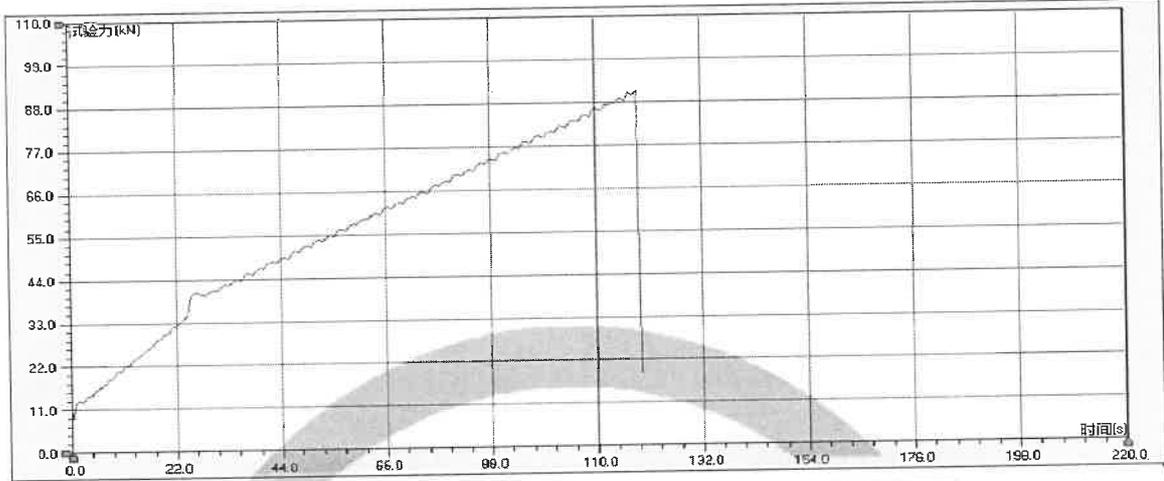


Oscillograms of residual strength test

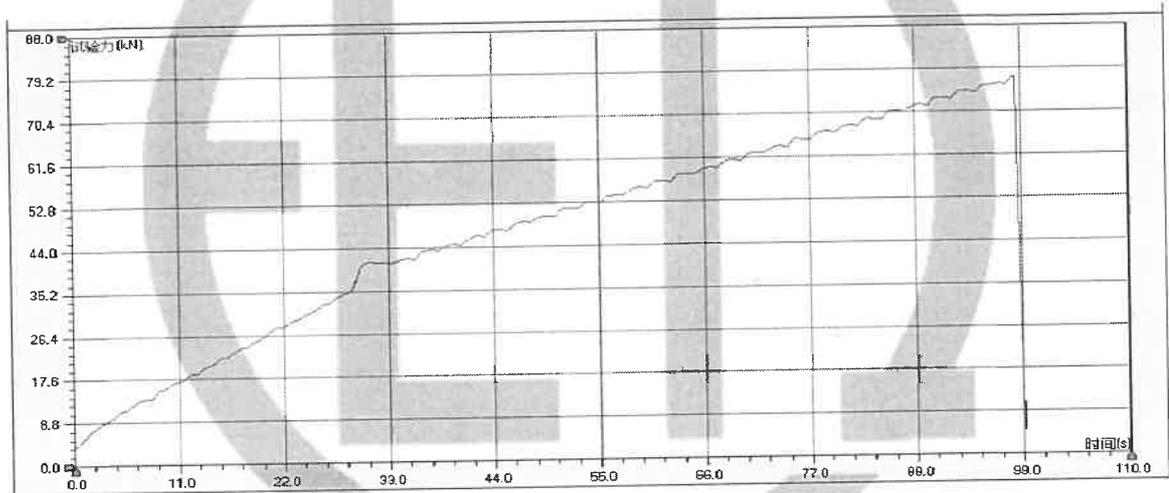
U70B/127
Glass insulator

No: /

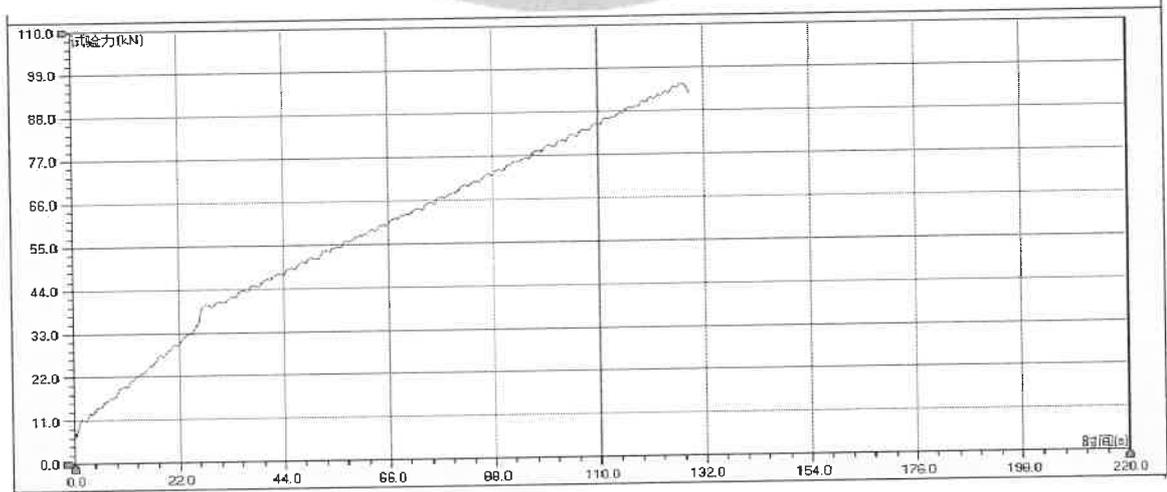
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25XJ0170-S-#77



25XJ0170-S-#78

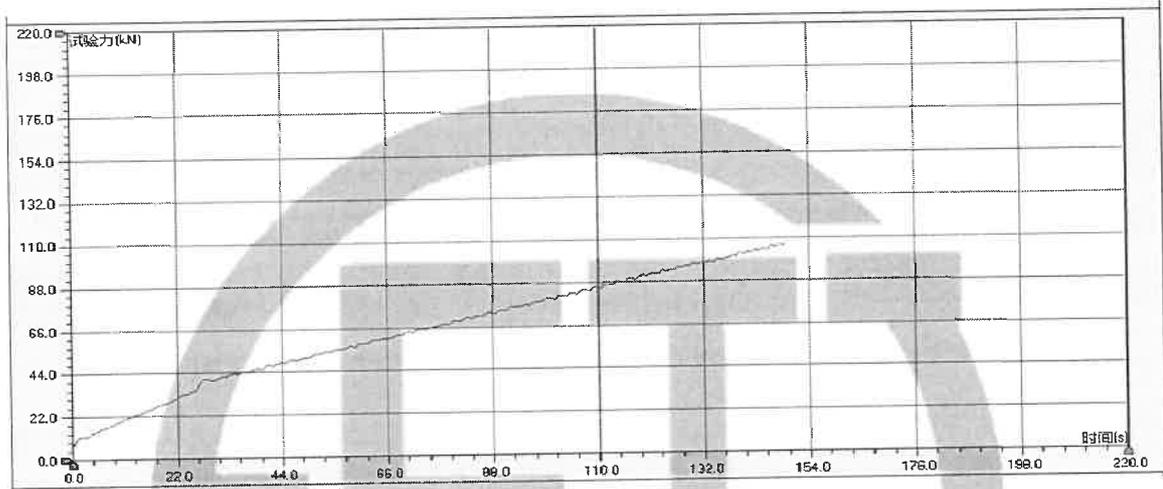


Oscillograms of residual strength test

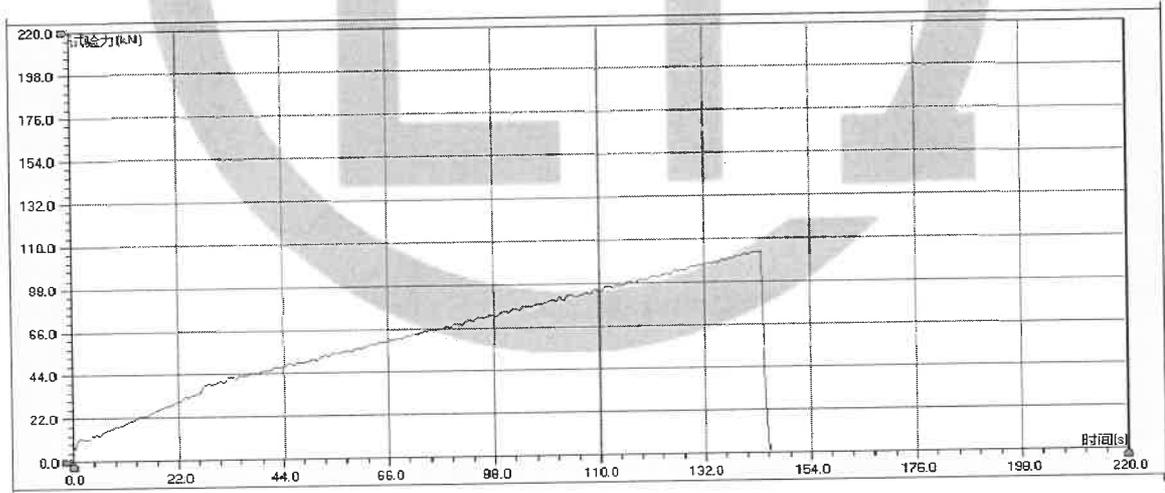
U70B/127
Glass insulator

No: /

25XJ0170-S-#79



25XJ0170-S-#80



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声 明

1. 报告未加盖检验检测专用章和联页章无效;
2. 报告涂改无效;
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4. 本报告只对所检验的样品有效;
5. 对采信客户提供的且本实验室无法核实其真实性的信息, 由客户自行承担责任。

DECLARATION

1. The report is invalid without special seal for testing and page combining seal on the report;
2. The report is invalid if altered;
3. The report is invalid without signatures of persons for drawing up, proof-reading, reviewing and approval;
4. The report is valid only for the inspected and tested samples;
5. The client shall be responsible for the information provided by the client and the authenticity of which cannot be verified by our laboratory.

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1. 对本报告如有异议者请于收到报告之日起十五天内向本单位提出, 谢谢合作。
2. 如对本报告无异议, 请于收到报告之日起一个月内取回样品, 生产单位取样品时应携带取样凭证、对本报告的书面认可报告, 方可领回样品。逾期不取者, 则由本单位自行处理。

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1. In case there is any objection to this report, please raise it to the laboratory within fifteen days starting from the date of receiving the report. Thank you for your cooperation.
2. In case there is no objection, please take back the samples within one month starting from the date of receiving the report, when the manufacturer is going to take back the samples, certificate for sample taking and along with the written approval for the report should be brought in presence, only then the samples could be taken back. On time due, the samples will be in the laboratory's own disposal.

本试验报告共 89 页	其中图 44 幅	照片 1 张
The test report is in total 89 pages	including 44 figures	and 1 photo

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