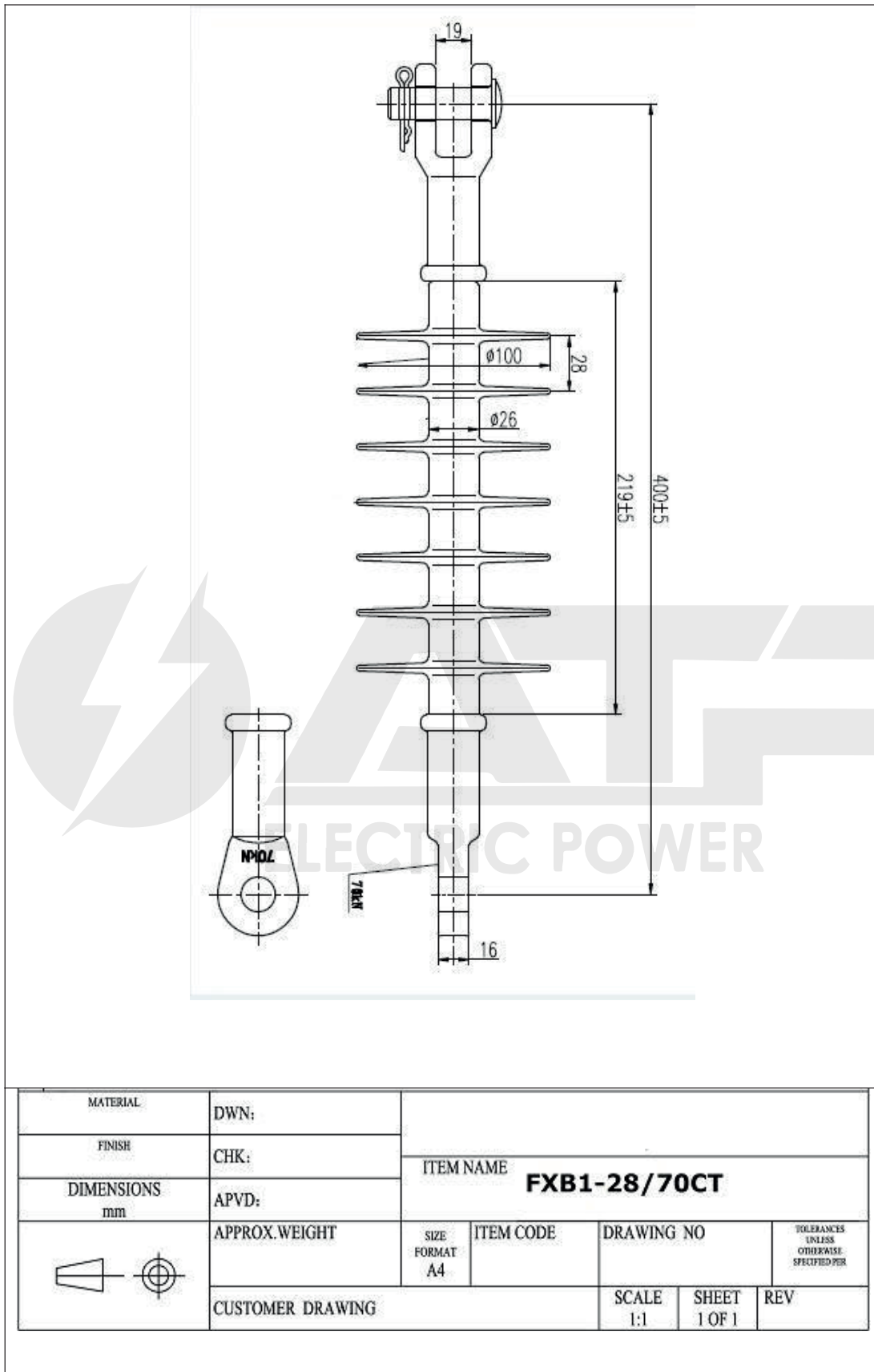


**CARACTERISTICAS TECNICAS GARANTIZADAS
AISLADOR POLIMERICO TIPO SUSPENSION**

No	CARACTERISTICAS	UNIDAD	VALOR REQUERIDO	VALOR GARANTIZADO
1.0	FABRICANTE			RAMOS ELECTRICAL
2.0	MODELO O NUMERO DE CATALOGO			FXB1-28/70CT
3.0	PAIS DE FABRICACION			CHINA
4.0	MARCA			ATP ELECTRIC POWER
4.0	NORMAS APLICABLES		IEC1109	IEC1109
5.0	TENSION DE DISEÑO	KV	25	28
6.0	MATERIAL DEL NUCLEO		FIBRA DE VIDRIO REFORZADO	FIBRA DE VIDRIO REFORZADO
7.0	MATERIAL DEL RECUBRIMIENTO DEL NUCLEO		GOMA DE SILICON	GOMA DE SILICON
8.0	MATERIAL DE LAS CAMPANAS		GOMA DE SILICON	GOMA DE SILICON
	HERRAJES			
9.0	MATERIAL DE LOS HERRAJES		ACERO FORJADO	ACERO FORJADO
10.0	NORMA DE GALVANIZACION		MALEABLE ASTM153	MALEABLE ASTM153
11.0	HERRAJE EXTREMO DE ESTRUCTURA		HORQUILLA (CLEVIS)	HORQUILLA (CLEVIS)
12.0	HERRAJE DEL EXTREMO DE LINEA		LENGUETA (TONGUE)	LENGUETA (TONGUE)
	DIMENSIONES Y MASA			
13.0	LONGITUD DE LINEA DE FUGA	MM	650	680
14.0	DISTANCIA DE ARCO EN SECO	MM		219
15.0	LONGITUD TOTAL	MM		400
16.0	DIAMETRO MINIMO DEL NUCLEO	MM		18
17.0	NUMERO DE CAMPANAS			7
18.0	DIAMETRO DE CADA CAMPANA	MM		100
19.0	ESPACIAMIENTO ENTRE CAMPANAS	MM		100
20.0	MASA TOTAL	KG		
	VALORES DE RESISTENCIA MECANICA			
21.0	CARGA MECANICA GARANTIZADA(SML)	KN	70	70
22.0	CARGA MECANICA DE RUTINA(RTL)	KN	35	35
	TENSIONES ELECTRICAS DE PRUEBA			
23.0	TENSION DISRUPTIVA CRITICA AL IMPULSO SUPORTABLE			
	-POSITIVA	KV	200	200
	-NEGATIVA	KV	200	200
24.0	TENSION DISRUPTIVA A BAJA FRECUENCIA SUPORTABLE			
	-BAJO LLUVIA	KV	95	95

DISEÑO DEL AISLADOR POLIMERICO



PRUEBAS REALIZADAS

TEST REPORT		NO.210110J Page 1 of 5
SUMMARY		
APPARATUS	FXB1-28/70CT COMPOSITE SUSPENSION INSULATOR	
MANUFACTURER	ZHEJIANG RAMOS ELECTRICAL CO.,LTD ADD - ATP ELECTRIC POWER	
Rated Value Assigned by the client	Nominal Voltage KV	28
	Specified Tensile Load KN	70
	Height mm	400
	Insulation Distance mm	219
	Creepage distance mm	680
	Dry lightning impulse withstand voltageKV	200
	Wet Power-Frequency withstand Voltage KV	95
Identification of the Composite Insulators (Routine Test)		
Date of tests:2021/1/10		
<p>Every insulator was marked with the manufacturer, the SML and the nominal voltage,These marking were legible and indelible</p>		
Visual Examinaion (Routine Test)		
Date of tests :2021/1/10		
<p>Specimen NO.1-NO.20 had fair appearance.No apparent tilt between core and metal fittings.NO superficial defects exceeding standard permission such as void,impurity or protrusion were observed.It was deemed satisfactory.</p>		
Tensile Load Test (Routine Test)		
Date of tests:2021/1/10		
<p>A tensile load at70KN was subject to specimen No.1-No.20 for 10s,none of them was damaged</p>		

TEST REPORT				NO.210110J Page 2 of 5	
Verification of Dimensions(Sample Test)					
Date of tests :2021/1/10					
16B Mark				Units :mm	
Specimen NO.	Height	Insulation Distance	Creepage Distance	Diameter of shed(L/S)	Diameter of housing
1	401.5	219.6	680	L=100	29.0
2	400	219.1	680		
3	400.8	219.3	680		
4	403.5	222.3	680		
5	402.9	220.6	680		
6	401.6	219.9	680		
7	400.8	221.3	680		
8	400.1	220.4	680		
9	400.6	220.3	680		
10	403.5	223.1	680		
Specifications	400+15	219+10	680	/	/
<p>Specimen No.1~NO.10 passed the gauging of ball and socket verification (16B mark) The Result met test standard and the technical specifications.</p>					

TEST REPORT				NO.210110J Page 3 of 5
Verification of the Locking System(Sample Test)				
Date of tests :2021/1/10				
16B Steeliness clip				
Specimen NO.	Load caused locking device to move to the coupling position N			Position of locking device under max. load of 250N
	First	Second	Third	
1	118	106	111	No removal from the Socket
2	104.3	93	113	No removal from the Socket
3	108	109	119	No removal from the Socket
4	105	103	103	No removal from the Socket
5	109	98	115	No removal from the Socket
6	121	103	110	No removal from the Socket
7	113	97	109	No removal from the Socket
8	119	106	108	No removal from the Socket
9	121	113	103	No removal from the Socket
10	108	104	111	No removal from the Socket
Specifications	25~250			No removal from the Socket
<p>The Result met test standard and the technical specifications.</p>				

TEST REPORT			NO.210110J Page 5 of 5	
Verification of Tightness of the Interface Between Ending Fittings and Insulator Housing and Verification of the Specified Mechanical Load (SML)(Sample Test)				
Date of tests :2021/1/10				
1 Verification of tightness of the interface between ending fittings and insulator housing Cleaned surfaces of specimen NO.5 covered these surface with penetrate, A 70KN tensile load was applied to the specimen in 5min lasting 1min.Removed the tensile load,then verification the interface of housing and metal fittings, no penetration phenomena were observed . The penetrate acted last 20min,then verification the interface of housing and metal fittings,no penetration phenomena were observed.				
2.Verification of the specified mechanical load (SML)				
Specimen NO.	SML (KN)	Duration from 75% to 100% SML (s)	Duration at SML (s)	Result
1	70	31.6	61	No damage
2		30.7	59	No damage
3		31	59	No damage
4		31	60	No damage
5		32	58	No damage
6		31	59	No damage
Specifications	70	30~90	Residual time of that 90s	No damage
The result met test standard and the technical specifications 3.Tensile Failing Load Test				
Specimen NO.	Rating	Obtained Value	Test Results	
1	70KN	83.5	The hardware breakage	
2		94.7	The hardware breakage	
3		88.3	The hardware breakage	
4		84.6	The hardware breakage	
5		84.7	The hardware breakage	
6		98.9	The hardware breakage	
The result met test standard and the technical specifications				

TEST REPORT					NO.210110J Page 5 of 5	
Galvanizing Test(Sample Test)						
Date of tests :2021/1/10						
Specimen NO.	Minium Value of single fitting		Average values of single fitting		Average values of all fitting	
	CAP	PIN	CAP	PIN	CAP	PIN
1	69	78	116	104	109	114
2	76	87	96	127		
3	83	95	116	109		
4	94	79	115	113		
5	98	83	108	109		
6	79	79	109	121		
Specifications	≥60		≥72		≥86	
<p>The result met test standard and the technical specifications.</p>						