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Datasheet AIPFCP22



AI PF CP 22 Is specially designed for high-voltage insulation with high requirements for insulating capacity along the tube. Insulating tubes in high-voltage switchgear and tap changers.

Application

Insulation tubes in high-voltage switches and on-load tap changers

Material

Phenol strengthened paper-based composite.

Availablity

	Value	Unit
Rod diameters	on request	
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	





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AIPFCP22 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,25	g/cm³
Water absorption at 23 °C	ISO 62-1	4,5	mg/cm²
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		on request	
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	120	MPa
Flexural strength		on request	
Insulation resistance		1	MΩ
Elastic modulus from bending test		80	MPa
Compressive strenth perpendicular		70	MPa

Thermal properties

	Test standard	Value	Unit
Thermal endurance 20,000 h (T.I)	IEC 60216	120	ºC

Friction properties

	Test standard	Value	Unit

Electrical properties

	Test standard	Value	Unit
Dielectric strength parallel		50	kV
Permittivity 50Hz	IEC 60250	5	[-]
Permittivity 1MHz	IEC 60250	0	[-]
Dissipation factor 50Hz	IEC 60250	0,04	[-]
Dissipation factor 1 MHz	IEC 60250	0	[-]
Insulation resistance after submersion in water	IEC 60167	10	MΩ

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