

PRODUCT RANGE: Our products include a various types of composite insulators ranging from 11kv to 400kv as per IEC Specifications.

GUARANTEED TECHNICAL PARTICULARS OF OUR PRODUCT RANGE						
Sl.NO	Description	11KV to 15KV	33KV to 36KV	132KV	220KV	400KV
		45KN / 70KN	70 KN / 90 KN	70KN /90KN /120KN	70KN /90KN /120KN	90KN/120KN/160KN /210KN
1	Type of Insulators	Polymer	Polymer	Polymer	Polymer	Polymer
2	Standard specification to which the Insulators manufactured & Tested	IEC 61109	IEC 61109	IEC 61109	IEC 61109	IEC 61109
3	Name of material used in manufacture of the Insulator (with class / grade)					
	(a) Material of core rod	Boron free, ECR grade	Boron free, ECR grade	Boron free, ECR grade	Boron free, ECR grade	Boron free, ECR grade
	(b) Material of Housing & weather sheds (silicon content by weight)	Silicone Rubber (>30%)	Silicone Rubber (>30%)	Silicone Rubber (>30%)	Silicone Rubber (>30%)	Silicone Rubber (>30%)
	(c) Material of end fittings : tongue/clevis, Socket/Ball	SGCI	SGCI	SGCI/Forging	SGCI/Forging	SGCI/Forging
	(d) Sealing compound for end fitting	RTV sealant	RTV sealant	RTV sealant	RTV sealant	RTV sealant
4	Colour Glaze of Insulator	Grey	Grey	Grey	Grey	Grey
5	Electrical Characteristics:					
	(a) Nominal system Voltage KV(rms)	11	33	132	220	400
	(b) Highest System Voltage KV(rms)	12	36	145	245	420
	(c) Dry power frequency withstand KV(rms)	40 to 60	95 to 120	320	490 to 495	720 to 820
	(d) Wet power frequency withstand KV(rms)	35 to 40	75 to 90	275	460	680
	(e) Dry flash over voltage KV(rms)	45 to 70	100 to 120	350	520 to 560	750 to 880
	(f) Wet flash over voltage KV(rms)	40 to 60	95 to 120	320	490 to 520	720 to 780
	(g) Visible Discharge test voltage kV(rms)	9	27	105	154	266
	(h) Dry lighting impulse withstand voltage					
	(a) Positive kVp	75 to 85	170 to 230	650	1050	1550
	(b) Negative kVp	75 to 85	170 to 230	650	1050 to 1100	1550 to 1650
	(i) Dry lighting impulse flashover voltage					
	(a) Positive kVp	80 to 90	190 to 240	700	1100 to 1150	1600 to 1750
	(b) Negative kVp	80 to 90	190 to 240	700	1100 to 1200	1600 to 1850
	(j) Switching Impulse Withstand Voltage kVp	-	-	-	600	1050

6	Mechanical Characteristics:					
	Minimum failing load (KN)	45 / 70	70 / 90	70 / 90 /120	70 / 90 /120	90 / 120 /160 / 210
7	Dimensions of Insulator:					
	i. Sectional Length(mm)	265 to 354	546 ± 5	1269 to 1490	1980 to 2225	3285 to 3960
	ii Creepage distance(mm)(min. to max.)	320 to 452	900 to 923	4000 to 4694	7000 to 7748	13020 to 13220
	iii. Dry Arcing distance (mm)	173 / 222	418	1167 to 1258	1885 to 1980	3050 to 3480
	iv. Dia of weather sheds (mm)	##	100	176/122/95	176/122/95	190 / 131 / 100
	v. Weight (Kg.)	1.0 / 1.2	1.7	5.4 to 6.9	9.2 to 10.7	26.6 to 31.8
8	Method of fixing of sheds to housing specify):- single mould or	single mould (Injection moulding)	single mould (Injection moulding)	single mould (Injection moulding)	single mould (Injection moulding)	single mould
9	No. of weather sheds	3 / 4	8	30 / 33 / 36	54 / 57 / 60	111 / 135
10	Type of sheds					
	(i) Aerodynamic	Aerodynamic	Aerodynamic	Aerodynamic	Aerodynamic	Aerodynamic
11	Packing Details					
	(a) Type of packing	corrugated	corrugated	corrugated	corrugated	corrugated
	(b) No. of Insulators in each pack	12	9	1	1	1

Note: Above specifications are subject to change based on customer requirements.