



# ASIATIC

**25 kV  
COMPOSITE  
INSULATORS  
FOR RAILWAYS**

**Asiatic** manufacturers world class range of 25 kV composite insulators for Railways in 9 Tonne, Stay arm hook & Bracket tube configurations.

## FEATURES

☑ The use of Polymeric/Silicone Rubber base insulators have several advantages over the conventional ceramic insulators eg: light weight, unbreakable, hydrophobic, resistant to ozone & UV radiations, resistant to earth quake shocks , self cleaning properties & resistant to vandalism.

☑ Manufactured to IEC 61109 & RDSO specifications TI/SPC/OHE/INSCOM/1070.

☑ The external sheds are moulded from Silicone rubber on the latest state of the art injection moulding machinery from Desma Germany. The silicone rubber is procured from world renowned companies across the world.

The end fittings which are intended to connect to a supporting structure or to a conductor are made up of malleable cast iron BM:350 of IS 14329 or SG cast iron conforming to grade 400/15 of IS 1865 iron and are duly Hot dip galvanized to a min of 750-1000 g/m<sup>2</sup> as per RDSO specifications.

☑ The metal end fittings are crimped on microprocessor controlled automatic hydraulic crimping machines.

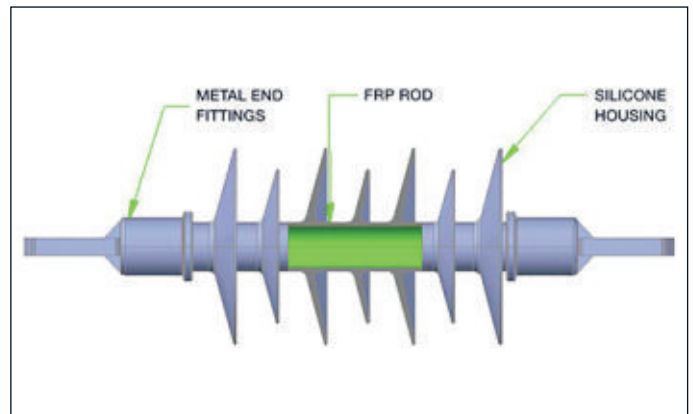
☑ The creepage distance offered is 1050 mm i.e. 20 mm/kV suitable for medium polluted areas.

The insulators are available in various types of end fittings like 9 tonne, Stay Arm & Bracket tube varieties.



## CONSTRUCTION FEATURES

The core is the insulating part of the composite insulator and is made up of fiber glass rod and is designed to ensure the necessary mechanical characteristics. The FRP rod used in the manufacturing of Silicone rubber insulators is one of core material which is manufactured by protrusion process using boron free ECR grade glass fiber having required mechanical & electrical characteristics.



## DESIGN TESTS

Our entire range of 25 kV composite insulators have the most coveted RDSO certification from Indian railways and the entire design tests have been duly witnessed by RDSO engineer at our works. Further, the composite insulators have been extensively type tested as per the IEC/IS/RDSO specifications .



SWITCHGEARS

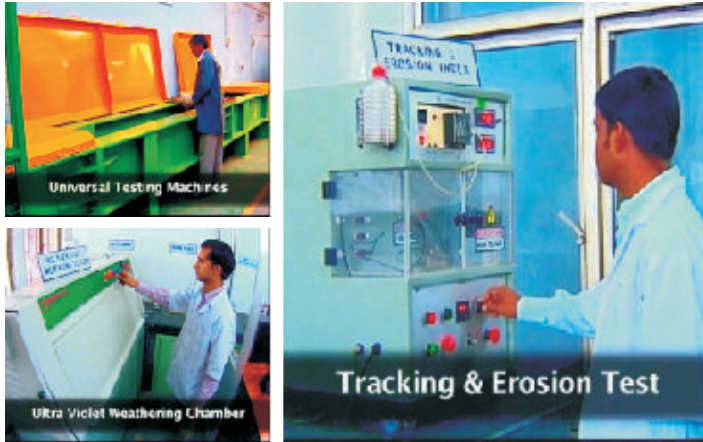
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**Tested Power..Trusted Solution**

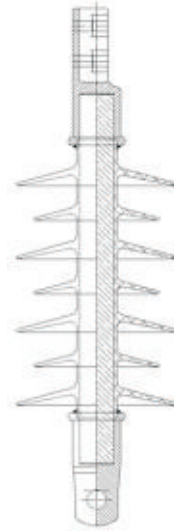
# SWITCHGEAR

## QUALITY CONTROL

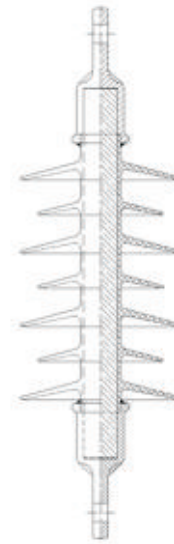
Asiatic has the requisite infrastructure to carry out routine tests on the insulators as desired by international/national standards like: Dry power frequency voltage test, Mechanical Tensile test, Thermo mechanical test chamber, U.V. weathering Rubber tensile test etc as per IEC 61109.



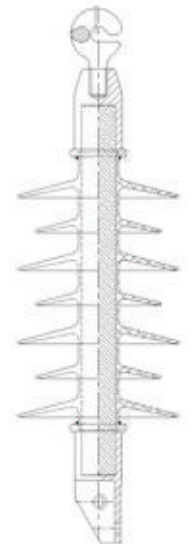
## SECTIONAL VIEW



25 kV COMPOSITE  
BRACKET TUBE INSULATOR  
(POLLUTED ZONE)



25 kV COMPOSITE  
9 - TONNE INSULATOR  
(POLLUTED ZONE)



25 kV COMPOSITE  
STAY ARM HOOK INSULATOR  
(POLLUTED ZONE)

## TECHNICAL PARTICULARS

S. NO	DESCRIPTION	UNITS	PARTICULARS		
1	Catalogue Number		IR259T1050-7	IR25BT1050-7	IR25STH1050-7
2	Sectional Length	mm	315	315	315
3	Voltage Rating	kV	25	25	25
4	Material		Silicone Rubber	Silicone Rubber	Silicone Rubber
5	Wet Power Frequency withstand Voltage (kV-rms)	Insulator vertical	100	100	100
		Insulator horizontal	125	125	125
6	Dry lightning impulse withstand Voltage (kV-peak)	Pos.	240	240	240
		Neg.	260	260	260
7	Min. Mechanical Failing Load	Kgf.	11000	7000	7000
8	Bending Moment	Kgf.	210	200	200
9	Minimum Creepage Distance	mm	1050	1050	1050
10	Type of end fittings		9 tonne	Bracket Tube	Stay Arm



## ASIATIC ELECTRICAL & SWITCHGEAR P. LTD.

(FORMERLY ASIATIC ELECTRONIC INDUSTRIES)

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DESIGN & PRODUCED BY PAGE

The Company follows a policy of continuous development and improvement of its products and hence products supplied may differ from those described and illustrated in this page.

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