











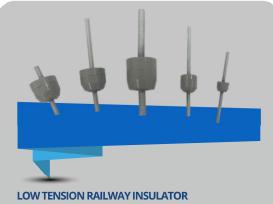


Customized insulating parts casted in epoxy that exceed in all quality, durability, and efficiency requirements for bushings and terminals used in high-stress, high-voltage applications.



#### **MEDIUM BUSHING TERMINALS**

Customized high current bushing and bushing terminals with coated copper for special application in railway technology according to all the accepted industry standars



Customer-specific low tension insulators which are used in Pantographs, Trolley Busses and small Conductor Rails. Available in various options of inserts and threads, manufactured from Cycloaliphatic cast resin system certified acc. EN 45545, UL 94 V0



Outperforms ceramic insulators with use of cycloaliphatic epoxy resin, they can be mounted in same location as existing third rail without structural modifications. Highly adaptable and can be designed according to specific needs. Meet EN 45545, UL 94 V0 criterias, fire and smoke certifications also available in accordance with ASTM D2303, D495, D2196,D229 requirements for specific models.

## MATERIAL

Products made from Polymer Concrete and Epoxy resin, for indoor and outdoor electrical application.

### **RE-RESIN**

Is an exclusive resin formulation developed with over 25 years of R&D by Radiant which guarantees a better performance than other resin formulations, our clientele and global presence is a testament to the quality of **RE-RESIN**.

#### ADVANTAGES OF RE-RESIN:

- -Suitable for outdoors as it is UV resistant.
- -Design flexibility due to metal part moldability and high strength.
- -Excellent mechanical & electrical properties.
- -Very good impact, shock and vibration strength.
- -Very Good Freeze Thaw properties.
- -Minimal moisture absorption.
- -Durability that reduces typical breakage from shipping, storage and installation
- -Cracks do not propagate like Ceramic during impact.
- -Not eaten by birds.

**RE - RESIN** has been globally tested to attain universal acceptance.

-ERDA (Electrical Power & Research Institute)

Various Electrical, Mechanical & Physical Tests, INDIA

-SGS Testing lab (EN - 45545-2 2013)

For Fire Protection on Railway Vehicles, CHINA

-VTech -ASTM D229 Method II

For flame resistance of rigid sheet and plate materials, USA

-UL 94 V0

for vertical burning test, UL Lab, TAIWAN

-CPRI (Central Power and Research Institute)

Various critical test for Surge Arresters & Railway applications, INDIA









## RE-RESIN DATA SHEET

	Values	Standards Applicable
Tension strength (MPA)	75- 85	ISO 527
Bending strenghth (MPA)	125-135	ISO178
Impact Strength (Kj/m2)	10-12	ISO179
Combustibility	НВ	UL 94
(12mm specimen)		
Flame Resistence of Rigid	Passed the Test	ASTM D229
Sheet and Plate Materials	(Ration 1 and Ration 2 < 0.642)	Method II
Thermal Classification	Class F	IEC 60085
Fire Protection on	Meets Requirements of	EN45545-2:2013
railway applications	R23 Specification in Hl3	
Flammability-m 50W (20 mm)	Flame rating- V-0	UL 94
Dielectric strength (kV/mm)	18- 19	IEC 60243
Dielectric loss (50Hz, @23°C)	1.5- 2.0	IEC 60250
Volume resistivity ( $\Omega$ .cm)	> 1015	IEC 600963
High voltage	350min (2500V)	ASTM D2303
Tracking and erosion test	at 50 Hz	IEC 60112
Tracking resistence	>600	
HV arc resistence (s)	185- 195	ASTM D495
Glass transition temperature	>125°C	ISO 11357-2
Coefficient of	31- 36 X 10-6	DIN 53752
linear expansion (°C-1)		





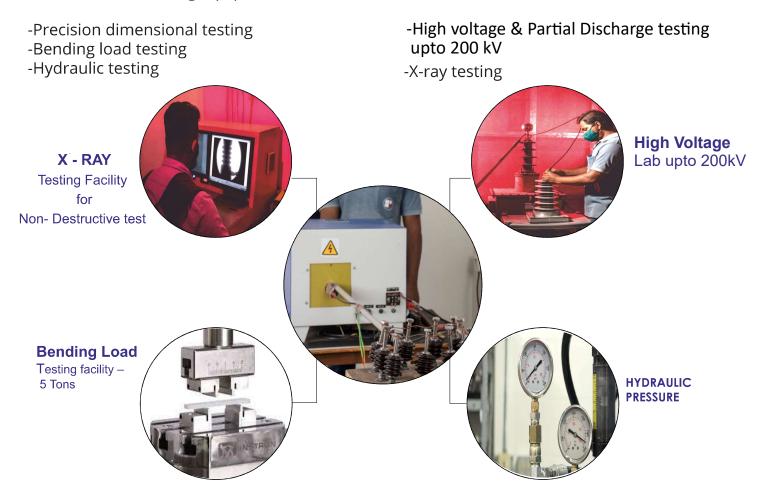






# TESTING AND QUALITY

Faultless delivery and assured products that have the exact quality standards with help of our state-of-the-art testing equipments.



With In-process monitoring, continuous training, rejection records and corrective action plans with implementation ensure that our three-tier quality inspection policy gives flawless supervision across all stages of manufacturing - Raw material, First inspection reports of new parts, in process material and finished product. Including a traceable record accounting for every detail including records of employees working on each product.

#### PRODUCTION CAPACITY

35000 sq. ft production space with 9 high-power vacuum material-mixing capable of producing 15 ton of material per day with Single cavity and multi-cavity molds operated by clamping units.

We are equipped with state-of-the-art machinery, a dedicated and experienced work force to produce the best possible products.



# **OUR CLIENTS**



























Raychem









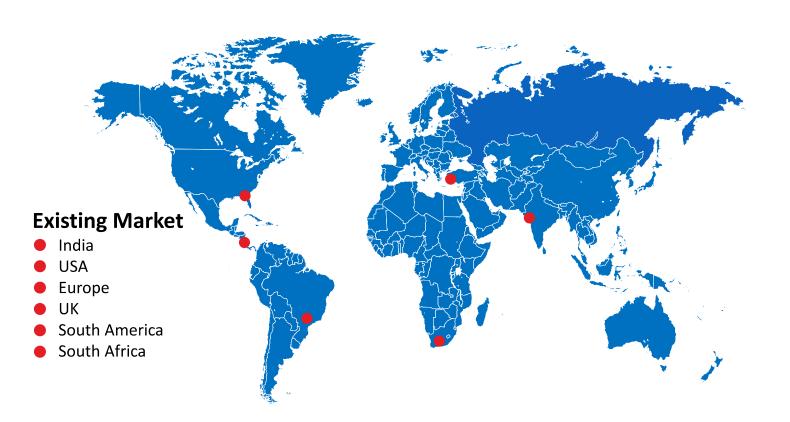








# **WE EXPORT** 80% of our **PRODUCE**













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