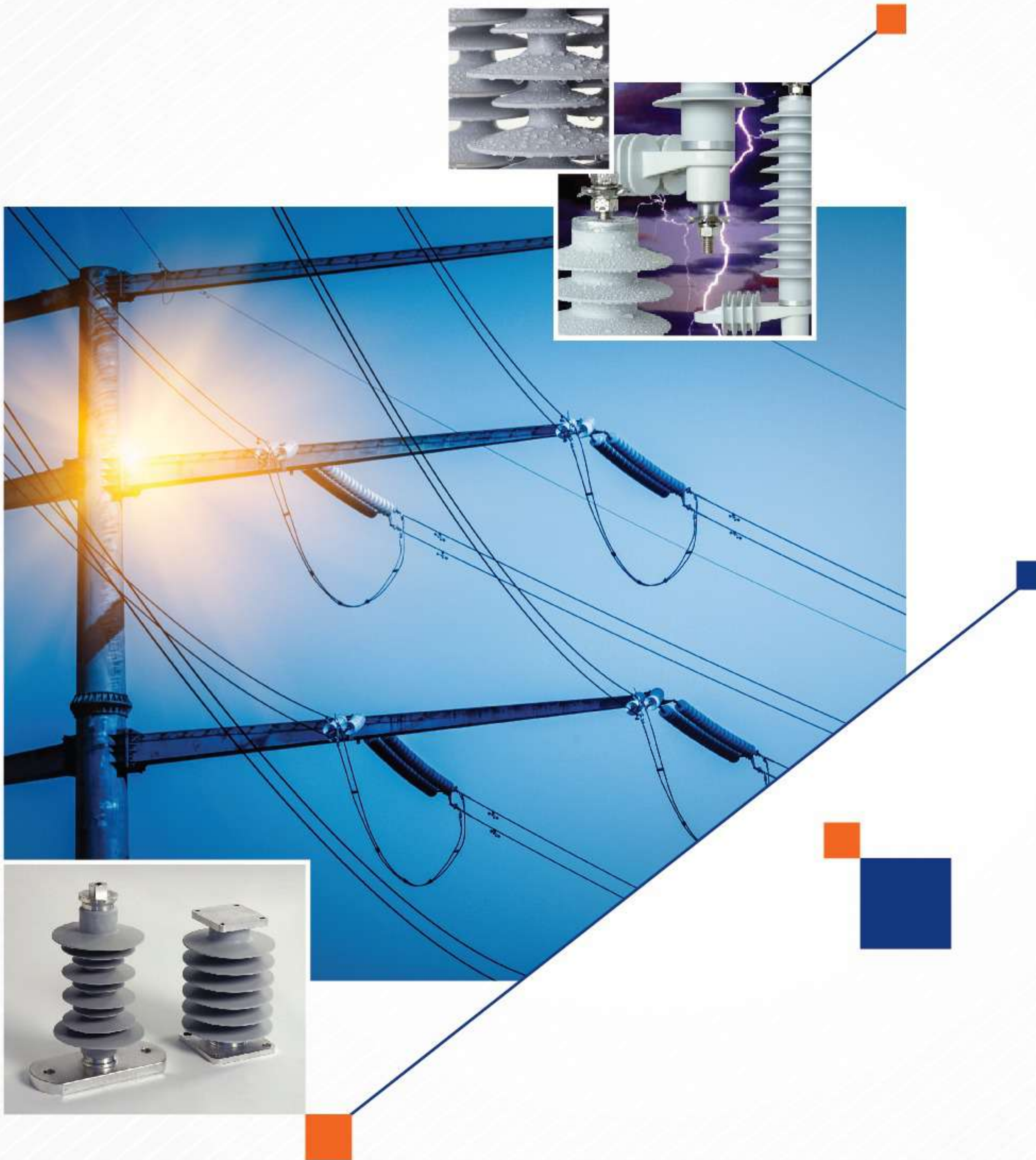


Siltek Advanced Materials India Private Limited



INNOVATION AT WORK...
For Specialty Silicone Elastomer Compounds...



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About Siltek...

Siltek Advanced Materials India Private Limited is a leading manufacturer of advanced silicone rubber compounds in INDIA. Siltek provides Innovative Solutions and Technical Services to meet unique needs of various industry segments. Founded by entrepreneurs having rich experience in the field of Silicones and other advanced materials. We are committed to meeting our customer needs by providing bespoke solutions and exceptional customer service.



Vision

To be the most preferred silicone elastomer compounds supplier globally by providing high specialty products through innovation to meet challenging customer requirements.

Why Siltek....

- Founders are experienced in developing "concept-to-commercialization" strategies in silicone markets for last 25 years.
- Significant focus on Research & Development and Quality.
- Trained technical manpower with hands-on experience in plant and technical services.
- Manufacturing set up specially designed for custom compounding of silicones and specialty elastomers.
- State-of-the-art testing and development facilities with sophisticated instruments.
- ERP integration for speedy and on-time delivery.

Product Portfolio:

Siltek Develops, Manufactures and Delivers high quality ready to use customized Silicone Rubber Compounds precisely in accordance with the customer specifications from various Industry Segments like

- | | | |
|------------------|---------------------------|--------------------------|
| ■ Electrical | ■ Automotive | ■ Domestic Appliances |
| ■ Wire and Cable | ■ Industrial Applications | ■ Aerospace and Railways |



■ **ELECTROSIL-540**

Silicone Elastomer for High Voltage Insulator Application

PRODUCT DESCRIPTION

Electrosil 540 is a ready to use Silicone Rubber Compound for the manufacturing of electrical insulating products for outdoor use such as Insulators, arrestors, bushings etc.

APPLICATIONS

- Composite Long Rod Insulators
- Composite Hollow Core Insulators
- Surge Arrestors... etc.

SPECIAL FEATURES

- Multiple type of insulators can be produced from Electrosil-540
- Excellent Tracking and Erosion Resistance
- Excellent Processability
- Good Dielectric Strength
- Superior Arc Resistance

**POWERGRID
APPROVED**

Properties	Standard	Unit	Specification Range
Hardness	ASTM D 2240	Shore A	61-75
Tensile strength	ASTM D 412	Mpa	4-7
Elongation at break	ASTM D 412	%	150-300
Tear Strength	ASTM D 624-B	N/mm	15-22
Specific Gravity	ASTM D 792		1.48-1.58
Di-electric strength	ASTM D 149	kV/mm	min 20
D.C. Volume Resistivity	IEC 60093	Ohm cm	min 1 X 10 ¹⁴
Tracking and Erosion Test	IEC 60587		Class 1A 4.5
Arc Resistance	ASTM 495	Seconds	min 240
Flammability	IEC 62217		Category-V0
Silicone Content by Weight	ASTM E1131	%	Min 32

■ **Williams Plasticity of Electrosil-540**

ELECTROSIL- 540 can be customized as per the required Williams Plasticity values for various applications like Long Rod Insulators, Hollow Core Insulators etc. This customization helps optimize the molding process leading to products with better dimensional accuracy, fewer defects and improved mechanical & electrical properties.

■ **Recovery of Hydrophobicity**

Siltek's ELECTROSIL-540 is one of the topmost performing silicone compound in RECOVERING THE HYDROPHOBICITY after 100 hours of Corona exposure when tested for "RECOVERY OF HYDROPHOBICITY & CORONA TEST" conducted as per Clause 2.2 of Standard Specification Of Transmission Line (Section-Composite Long Rod Insulator), Section-VIII (Volume-II), REV-4 (October' 2024) of PGCIL.



■ Design Tests conducted for **Electrosil-540**

Sl. No.	Test Name	Test Standard
1.	Tracking and Erosion Test - 1000 Hours Salt Fog Test	IEC 62217-2012
2.	Accelerated Weathering Test	IEC 62217-2012
3.	Tests On Interfaces and Connections of End Fittings	IEC 62217-2012, IEC 61109-2008
4.	Assembled Core Load Time Tests	IEC 61109-2008
5.	Flammability Test	IEC 62217-2012, IEC 61109-2008
6.	Hardness Test	IEC 62217-2012
7.	Silicone Content Test Report	ASTM E 1252, ASTM E 1131



■ An Overview Of Our Other **Silicone Rubber Compounds**

■ **Grade: SR-FIRE-EN**

FIRE RESISTANT SILICONE RUBBER FOR RAILWAY VEHICLES APPROVED FOR EN 45545-2 HL3 IN R22/R23 CATEGORY BY EUROFINs LAB.



■ **Grade: SCR-70H**

FIRE SURVIVAL SILICONE COMPOUND CERAMIFIES AT HIGH TEMPERATURES TYPICALLY DURING A FIRE.



■ **Grade: ELECTROSIL-900E**

SILICONE COMPOUND FOR SLEEVES/COVERS FOR OVERHEAD CONDUCTOR LINES.



■ **Grade: SR32XX**

FLAME RETARDANT SILICONE RUBBER- Tested for UL94-V0 requirements



Available in Shore A Hardness of 20-80

Test reports are available on request. The information contained herein is offered in good a good faith and is believed to be accurate but do not absolve the from carefully checking all supplies immediately on receipt. We reserve the right to modify products as required for technical progress or new developments. All third-party names, images and trademarks used in this catalogue are property of their respective owners. Any usage is for identification only and does not imply endorsement.