TESTING REGIME



Our products have been subjected to vigorous laboratory and real world testing to give you the utmost confidence in their integrity and performance. Summary of test results available on the website and copies of the test results are available on request.

GLOBAL STANDARDS

We meet or exceeded the performance requirement for the relevant ANSI, CEA, IEC & AS/NZS standards in the following tests:

- Base/Wood crossarm interface
- BIL
- Cantilever strength
- Dry Power frequency
- Lightning impulse flashover
- Power arc
- RIV
- Thermal shock and cycling
- Tracking and erosion (dip wheel method) with steep front
- Water penetration
- Wet power frequency

	RESULT			
ACCEPTANCE CRITERIA	L-M	H-VH	CONIVIENT	
No more than three over current trip outs	Pass	Pass	None	
No signs of material erosion deeper than 2mm	Pass	Pass	None	
No signs of tracking in the material	Pass	Pass	None	
No signs of corrosion that has exposed the base metal or can lead to failure of hardware	Pass	Pass	None	
The material analysis completed	None			

EXAMPLES OF PERFORMANCE TESTING

Full performance testing of EMCPA cutout insulators was completed by Powertech Labs in Vancouver. They also underwent an electrical utility designed energized ageing comparison performance test. A number of competitive polymeric products failed the comparison test in which the EMCP product remained uncompromised.

EMCPA's LPI36-1100 (36kV line post

insulator) underwent very heavy pollution and natural ageing coastal testing at the Koeberg Insulator Pollution Test Station (KIPTS) in South Africa. Both winter and summer cycles were successfully completed with the insulator achieving an extreme pollution evaluation at 22kV. KIPTS is regarded as one of the most rigorous test regimes globally delivering results that can be relied on as indicative to real world long term performance. This is a recognized real world equivalent of undergoing a 5000 hour salt fog laboratory insulator test.





Material samples have undergone QUV type 'A' cyclic testing alongside standard CEP and other formulations. The tests were conducted to 7500+hours, which is the equivalent of over 40 years of natural aging, and the surface remained non-absorbent. In contrast with other materials, the samples retained hydrophobic properties for the entire test.

SPRAY TEST HYDROPHOTIC EVALUATION ON ACCELERATED WEATHERING ACCELERATED WEATHER RESULTS UP TO 400 HOURS									
System	Ероху	Silica	O Hours	1000 hours	2000 hours	4000 hours (1-7)			
Reference		Treatment		(1-7)	(1-7)				
SRES	Cycloaliphatic Epoxy	Epoxy	Maximum beading	Full Beading	Poor Beading	Beading and			
	Resin (CEP)	Silane	(1)	(2)	(4)	Sheeting (5)			
HSIL	Cycloaliphatic Epoxy	HSIL	Maximum beading	Full Beading	Poor Beading	Full Beading (2)			
	Resin (CEP)		(1)	(2)	(2)				

Extract from 4000 hr test report