سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
گواهی ثبت مقاله در سیویلیکا
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عنوان مقاله:

Performance Investigation of HV Insulators Coated by Silicon Rubber

محل انتشار:

بیست و یکمین کنفرانس بین المللی برق (سال: 1385)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Ali Naderian - *Electrical and Computer Engineering , Faculty of Engineering, University of Tehran High Voltage Lab, Faculty of Engineering, University of Waterloo, Ontario, Canada*

Majid Sanaye-Pasand - *High Voltage Lab, Faculty of Engineering, University of Waterloo, Ontario, Canada*

Hosein Mohseni - *Electrical and Computer Engineering , Faculty of Engineering, University of Tehran*

Saleh Moonesan - *Electrical and Computer Engineering , Faculty of Engineering, University of Tehran*

خلاصه مقاله:

This paper discusses important parameters for evaluating room temperature vulcanized (RTV) silicone rubber coatings for high voltage insulators of substations and overhead lines. It presents the results of conducted tests for 3 different commercial RTVs which are used by utilities nowadays. Tracking and erosion resistance, loss of hydrophobicity, mechanical strength, thermo-gravimetric analysis, and scanning electron microscopy, have been employed to evaluate these coatings in laboratory. As a final conclusion, RTV-C, which has both ATH and silica fillers with the filler size about 1 m µ , shows the best electrical, mechanical and chemical performance among available .insulators. It is recommended for applying to ceramic insulators in the field

کلمات کلیدی:

Insulator, RTV coating, silicone rubber, filler, pollution

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