

Title (en)

METHOD OF SUPPRESSING SUPERSATURATION IN UNDERGROUND ELECTRICAL CABLES

Title (de)

VERFAHREN ZUM UNTERDRÜCKEN VON ÜBERSÄTTIGUNG IN ELEKTRISCHEN ERDKABELN

Title (fr)

PROCEDE DE SUPPRESSION DE LA SURSATURATION DANS DES CABLES ELECTRIQUES SOUTERRAINS

Publication

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Application

EP 99949801 A 19990922

Priority

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Abstract (en)

[origin: CA2345026A1] A method for enhancing the dielectric properties of an electrical cable having a central stranded conductor encased in a polymeric insulation. The cable defines an interstitial void space (v1) between the strands of the conductor. The volume (v2) of a dielectric enhancement fluid required to be absorbed by the cable to reach a predetermined level of dielectric enhancement is determined. The ratio of (v1/v2) is computed. If the ratio of (v1/v2) is greater than a maximum ratio of 1.4, then a quantity of the dielectric enhancement fluid is diluted with a sufficient quantity of a diluent to produce a mixture of diluent and dielectric enhancement fluid, such that when the volume (v1) of the mixture is supplied to the cable interior, the cable will have been supplied with a volume (v3) of the dielectric enhancement fluid within the mixture such that (v3/v2) is less than 1.4. The diluent is substantially insoluble in the polymeric insulation, has a sufficiently low initial viscosity to enable introduction into the cable interior, and is miscible with the dielectric enhancement fluid.

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