

Title (en)

BLENDED OIL COMPOSITIONS USEFUL AS DIELECTRIC FLUID COMPOSITIONS AND METHODS OF PREPARING SAME

Title (de)

ALS DIELEKTRISCHE FLÜSSIGKEITZUSAMMENSETZUNGEN VERWENDBARE MISCHÖLZUSAMMENSETZUNGEN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

COMPOSITIONS D'HUILE MÉLANGÉE UTILES COMME COMPOSITIONS DE FLUIDE DIÉLECTRIQUE ET PROCÉDÉS DE PRÉPARATION DE CES DERNIÈRES

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Application

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Abstract (en)

[origin: WO2014078156A1] In the present invention, compositions that are suitable for use as dielectric fluids are obtained from renewably sourced oils, and blends thereof. Renewably sourced synthetic esters as described herein are prepared using components obtained from natural or biologic feedstocks, wherein the feedstocks can be regenerated via conventional farming techniques. Dielectric fluids that can meet the industry standards are obtained using a process of combining appropriate percentages of components selected from synthetic polyol esters, natural oils, and mineral oil to customize the properties of the dielectric fluid obtained. Some of the properties that can be manipulated in the practice of the present invention include: electrical strength, resistivity, impulse strength, dissipation factor, permittivity, specific heat, thermal conductivity, chemical stability, gas absorption, pour point, viscosity, volatility, flash and fire point, and biodegradability.

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