

Title (en)

Mineral oils with improved conductivity and cold flowability.

Title (de)

Mineralöle mit verbesserter Leitfähigkeit und Kältefließfähigkeit

Title (fr)

Huiles minérales à conductivité et aptitude à l'écoulement à froid améliorées.

Publication

**EP 1749873 A3 20090916 (DE)**

Application

**EP 06013802 A 20060704**

Priority

DE 102005035277 A 20050728

Abstract (en)

[origin: EP1749873A2] A mineral oil distillate having a water content of less than 150 ppm and a conductivity of at least 50 pS/m, comprises 0.1-200 ppm at least one alkylphenolaldehyde resin and 0.1-200 ppm at least one nitrogen-containing polymer. Independent claims are also included for the following: (1) improving the electrical conductivity of mineral oil distillates having a water content of less than 150 ppm and comprising 0.1-200 ppm nitrogen-containing polymer(s), by adding to the mineral oil distillates compositions comprising 0.1-200 ppm alkylphenol-aldehyde resin(s) and, based on the alkylphenol-aldehyde resin, 0.1-10 pbw nitrogen-containing polymer(s) so that the mineral oil distillates have a conductivity of at least 50 pS/m; and (2) an additive for mineral oil distillates comprising alkylphenol-aldehyde resin(s) and nitrogen-containing polymer (s) from a comb polymer containing units derived from esters of ethylenically unsaturated carboxylic acids, vinyl esters, and/or vinyl ethers, and nitrogen-containing comonomer(s); a copolymer of ethylene with an ethylenically unsaturated nitrogen-containing comonomer; and a polymeric polyamine, prepared by condensation of an aliphatic primary monoamine or of an N-alkylalkylene-diamine with epichlorohydrin or glycidol.

IPC 8 full level

**C10L 1/14** (2006.01); **C10L 1/198** (2006.01); **C10L 1/236** (2006.01); **C10L 1/238** (2006.01); **C10L 1/2383** (2006.01); **C10L 1/2387** (2006.01); **C10L 10/10** (2006.01)

CPC (source: EP KR US)

**C10L 1/146** (2013.01 - EP KR US); **C10L 1/1981** (2013.01 - KR); **C10L 1/2364** (2013.01 - KR); **C10L 1/2366** (2013.01 - KR); **C10L 1/2383** (2013.01 - KR); **C10L 10/14** (2013.01 - EP KR US); **C10M 101/00** (2013.01 - KR); **C10L 1/1981** (2013.01 - EP US); **C10L 1/236** (2013.01 - EP US); **C10L 1/2364** (2013.01 - EP US); **C10L 1/2366** (2013.01 - EP US); **C10L 1/2383** (2013.01 - EP US); **C10L 2230/20** (2013.01 - KR)

Citation (search report)

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Designated contracting state (EPC)

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