

Title (en)

Liquid compositions for refrigeration systems containing fatty amines, fatty amides, and reaction products of fatty acylating agents.

Title (de)

Flüssige Zusammensetzungen für Kälteanlagen, welche Fettaminen, Amides von Fettsäuren oder Reaktionsprodukten mit Fettacylierungsmitteln enthalten.

Title (fr)

Compositions liquides pour systèmes de réfrigération contenant des amines grasses, des amides d'acides gras ou produits de réaction avec des agents gras d'acylation.

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Application

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Priority

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Abstract (en)

This invention relates to a liquid composition comprising (A) at least one fluorine-containing hydrocarbon containing 1 to 3 carbon atoms, (B) an efficiency improving or wear reducing amount of an additive selected from the group consisting of at least one fatty amine, at least one fatty amide, at least one reaction product of at least one fatty carboxylic acylating agent and at least one amine selected from the group consisting of a polyamine, a hydroxy amine and a mixture thereof, and at least one mixture thereof, and (C) an effective amount of a lubricant selected from the group consisting of at least one carboxylic ester, at least one polyalkylene glycol, at least one polycarbonate, and at least one mixture thereof. The liquid compositions containing the fatty amine, the fatty amide, the reaction product of a fatty carboxylic acylating agent have improved efficiency and antiwear properties. These compositions provide effective protection against wear, especially aluminum on steel wear. The compositions help prevent formation of metal debris during compressor operations.

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