

CPI®-4214-150

Refrigeration compressor lubricant

Product description

CPI®-4214-150 is a synthetic refrigeration compressor lubricant. This fluid offers advantages as excellent natural lubricity and excellent thermal and chemical stability, together with HCFC refrigerants. Statoil is a strategic partner and reseller of lubricant products for CPI Fluid Engineering.

Application areas

CPI®-4214-150 is intended to be used as a refrigeration compressor lubricant. When the product is used in rotary screw compressors where higher temperatures and pressures affect the oil in the reservoir, or in systems without separation properties, the resultant viscosity of the oil/refrigerant must be adequate to provide hydrodynamic lubrication as well as to effectively seal the compressors. CPI®-4214-150 has been found to meet these requirements. The extreme miscibility of this lubricant with R-22 has made it an excellent candidate for low temperature applications. Since it is a synthetic formulation, there is no possibility for wax precipitation.

Characteristics and advantages

CPI®-4214-150 represent a new class of refrigeration oils which has been carefully designed for high miscibility at lower temperatures with lower solubility at higher temperatures. The complete miscibility at low temperatures assures the lubricant to return from flooded evaporators and also to provide a better exchanger efficiency. The oil has a minor effect on the swelling of elastomers compared to the conventional neopentyl esters. Systems which include oil/gas separators will have the additional benefit of an extremely low vapor pressure. High viscosity grades (ISO grades to 320) with high viscosity indexes have been developed to provide an efficient compression sealing by compensating for the effect of the dissolved refrigerant while maintaining good oil return.

Tests and approvals

Handling and storage

Avoid skin contact. In the event of contact with skin, wash with soap and water. Dispose of used oil at a recycling station or equivalent. Safety data sheets are available for professional users and are supplied on request.

Typical Data

Characteristics	Typical value	Unit	Method
Density at 15°C	1010	kg/m ³	ISO 12185
Flash point COC	290	°C	ISO 2592
Pour point	-43	°C	ISO 3016
Viscosity at 40°C	168	mm ² /s	ISO 3104
Viscosity at 100°C	20.2	mm ² /s	ISO 3104
Viscosity index	150	-	ISO 2909

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