

Refrigerant Oil Compatibility Chart

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Refrigerant Oil Compatibility Chart

Today, a big variety of refrigerant fluids are in use, and because of this, it is necessary to check its compatibility with the different types of lubricant oil. The table below helps to choose the most adequate option.

WHICH OIL IS COMPATIBLE WITH EACH REFRIGERANT FLUID ...

Various refrigerants use different oils. Older CFC and HCFC refrigerants tended to use Mineral Oil (MO) and Alkyl Benzene (AB) oils. Modern HFC and HFO refrigerants tend to use Polyolester (POE) oils, although some HFC blends specifically designed as "drop-in" retrofit gases for CFCs and HCFCs may have some tolerance to MO and AB oils.

Oil compatibility | Linde Gas

1. DuPont Refrigerants without an oil change DuPont™ ISCEON® 9 Series refrigerants are Mineral Oil compatible and typically do not require an oil change except ISCEON® 39TC® which requires only one oil change to POE. 2. Topping Off the Charge DuPont refrigerants can be topped off after a leak while servicing with same refrigerant.

U.S. Refrigerants Cross-Reference Guide

Refrigerant and oil capacity charts. Arranged alphabetically by make. NOTE! Refrigerant and oil capacity guides are based on data provided by sources such as AllData and Mitchell. You should always attempt to verify the information with your vehicle manual or information provided on the underhood stick, sometimes also located on the top of the ...

Find your vehicle's refrigerant or oil capacity ...

Mineral oil worked well with refrigerants that contained Chlorine but is not miscible with modern HFC and HFO refrigerants. Alkylbenzene (AB) – a synthetic oil suitable for refrigeration systems using CFC or HCFC refrigerants. It is compatible with mineral oil and compared to mineral oil, it has improved refrigerant miscibility at low-temperature conditions which is why it was and is often used with HCFC refrigerants in commercial refrigeration.

Refrigerant Oil Basics - HVAC School

Compatibility test results for 11 pure refrigerants and 17 refrigerant-lubricant combinations with 24 motor materials are included in this report. The report is presented in four volumes. Volume I contains the abstract, scope, discussion of the results, charts of motor material compatibility, test procedures, material identification and 84 pages of

COMPATIBILITY OF REFRIGERANTS AND LUBRICANTS WITH MOTOR ...

COMPATIBILITY OF REFRIGERANTS AND LUBRICANTS WITH ENGINEERING PLASTICS Final Report Richard C. Cavestri, Ph.D. Imagination Resources, Inc. 5130 Blazer Memorial Parkway Dublin, Ohio 43017 September 1993 Prepared for The Air-Conditioning and Refrigeration Technology Institute Under ARTI MCLR Project Number 650-50600

Compatibility of refrigerants and lubricants with ...

Most 1996 and newer A/C systems use R134a refrigerant and require some type of PAG (polyalkylene glycol) oil for the compressor. If the wrong type of compressor oil or the wrong viscosity compressor oil is used, it may damage the compressor.

A/C Compressor PAG Oil Application Chart

Mineral Oil. Mineral refrigerant oil, also known as Alkyl Benzene oil, is probably the one that most of you are used to. (Please note that while Alkyl Benzene oil can be used as a replacement in most mineral oil applications these two oils are not the exact same. Alkyl Benzene oil is synthetic whereas mineral oil is not.) Until recently mineral oils were the default lubricant used in refrigeration systems.

Understanding Refrigerant Oils - Refrigerant HQ

While R-32 may not be listed in the EPA's SNAP approved refrigerant it's usage is spreading across the world. I have read many articles stating that R-32 is expected to be the standard refrigerant for home and commercial traditional split air conditioners.

R-32 Refrigerant Fact & Info Sheet - Refrigerant HQ

Oil Type for Different Types of Refrigerant Product line: All AC DX Units Environment: All versions/serials Cause: Oil Maintenance Resolution: Below is a list of the different oil types for the different refrigerants in our units. Always check the compressor manufacture's recommendations for oil on any other type of cooling unit.

Oil Type for Different Types of Refrigerant

All new compressors use POE oil and are compatible with R407c and most other R22 replacement refrigerants. Below you can find different R22 replacement refrigerants and the +/- of each. Legacy Air currently only offers R407c as our choice for an R 22 replacement refrigerant and we do carry it on our trucks. We do not normally carry M099, but will acquire some and install for the customer upon their request in conjunction with a leak repair.

Considering R 22 Replacement Refrigerants | What to Know

These tables list the chemical compatibility chart of various elastomer materials commonly used for o-ring. This data has been compiled from literature published by various material suppliers. It is given as background ... Aniline Oil (3) Animal Oil (4) Arachlor 1248 (3) Argon (4) Aromatic Fuel 50% (1)

CHEMICAL COMPATIBILITY CHART

Oil is used in refrigeration systems to lubricate compressor bearings and other moving parts. The properties of the oil selected must be suitable for this purpose. In an automotive engine, motor oil stays in the crankcase where it belongs. If refrigerant oil did the same thing—that is, if it remained in the

OIL IN REFRIGERATION SYSTEMS - RSES

2132, Page 1 15th International Refrigeration and Air Conditioning Conference at Purdue, July 14-17, 2014 Material Compatibility of HVAC&R System Materials with Low GWP Refrigerants Julie A. MAJURIN1*, Steven J. STAATS1, and William GILLES1 1Trane/Ingersoll Rand Materials and Chemistry Team, La Crosse, Wisconsin, USA JulieA.Majurin@irco.com, StevenJ.Staats@irco.com, Bill.Gilles@trane.com

Materials Compatibility of HVACR System Materials with Low ...

Retrofitted systems that use Freon Hot Shot™ 2 refrigerant don't require a costly, time-consuming oil change because the refrigerant is compatible with all compressor oils. Nonflammable and with low toxicity, the direct replacement Freon Hot Shot™ 2 provides other benefits, including: Compatibility with mineral, alkylbenzene, and POE oils

Freon Hot Shot™ 2 (R-417C) Refrigerant

Keep an oil chart and specification guide close at hand. It's useful to have around when trying to figure out which oil goes where. We are working on our refrigerant oil chart and should have that available as a reference here in time for A/C season.

Which Oil to Use with R-134a? - Automotive Air Conditioning

It is desirable that lubricants work with current oil-control technology, meet current or improved durability requirements, and be backward compatible with mineral-oil systems. Material compatibility between the new refrigerants, lubricants, and materials of construction in compressor and system components must be maintained.

Criteria For Refrigerant Selection - ACHR News

refrigerant manufacturer published comparison factors. 2. In retrofitting an existing refrigeration system, material compatibility and the condition of the existing seals and gaskets must be taken into account. Heat set, compression set and seal shrinkage can affect the condition of an existing seal or gasket.

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