

Polyalkylene Glycol (PAG) , Refrigeration Oil NH₃-Soluble

Description

DAYAN REFRIGERATION PG grades are fully synthetic grade polyalkylene glycol lubricants designed specifically for application with NH₃ in mobile air-conditioning systems. DAYAN's capped PAG lubricants, based on a new "capping" technology, provide efficient lubrication for compression type refrigeration units, with excellent refrigerant solubility over the full temperature range and a substantially reduced tendency to absorb water. Superior lubricating properties as a result of the new capping technology improves suitability for use in all applications.

Features and benefits

- Fully formulated Polyalkylene Glycol lubricant
- For NH₃, CFC and HFC applications

Application

- . It is recommended to use steel materials (e.g. for the valves)
- . Equipment materials have to be compatible with polyglycols - PAGs (elastomers / plastic materials)
- . Dayan refrigeration PG is not compatible and miscible with mineral oils
- . Dayan refrigeration PG is a polar lubricant and hygroscopic
- . Ammonia (NH₃) can evaporate from the oil

Specification

- DIN 51503: KAB, NH₃-soluble refrigeration oil, fully synthetic - PAG.

Product and environmental safety

Product and environmental safety Based on available information, this product is not expected to produce adverse effects on health when used for the intended application. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

The DAYAN trademark is registered and protected in Iran.

Technical Data

Test	Units	Method	PG 68	PG 100
Classification according to DIN 51 503	-	-	KAB - NH ₃ -Soluble Refrigeration Oil	KAB - NH ₃ -Soluble Refrigeration Oil
ISO Viscosity Grade	-	ISO 3448	68	100
Kinematic Viscosity at 40 °C	mm ² /s	-	69.5	100
Kinematic Viscosity at 100 °C	mm ² /s	-	14.5	19.6
Viscosity Index	-	ASTM D2270	220	220
Density at 15 °C	Kg/m ³	ISO 12185	1043	1045
Flash Point	°C	ISO 2592	240	240
Pour Point	°C	ISO 3016	-52	-49
Neutralisation Number	mg KOH/g	ASTM D664	0.04	0.04
Copper Corrosion	-	ASTM D130	1a	1a
Colour	-	DIN ISO 2049	0	0
Solubility with NH ₃ , 10% oil with 90%NH ₃	°C	DIN 51 514	-35	-35
Water Content	%	DIN 51 777-2	< 0.03	< 0.03

Note:

1- The Typical characteristics are given as a guide only and may vary according to latest production according to ISO.