



Rodutherm 717-100-SYN

Synthetic PAO Ammonia Heat Pump Lubricant | Technical Data Sheet

Introduction

Rodutherm 717-100-SYN is a polyalphaolefin (PAO) based compressor oil specifically formulated for use in high pressure ammonia heat pumps. Through the use of highly stable PAO base oils, NEXT 717-100-SYN offers lower oil carryover rates than mineral oil as well as formulations composed of PAO/AB blends. Also available in ISO 150.

Applications, Gases & Benefits

Applications	Gases	Benefits
▶ High pressure ammonia heat pumps ▶ Reciprocating and rotary screw compressors	▶ Ammonia (R-717)	▶ Meets DIN 51503 (KAA) requirements ▶ Superior low temperature fluidity and oil return ▶ Very low oil carryover rates ▶ Excellent seal compatibility ▶ Minimizes defrost cycles ▶ Long oil life ▶ Clean running, wax-free formulation

Technical Specifications

Property	VG 100	
Viscosity @ 40 °C	cSt	100
Viscosity @ 100 °C	cSt	14.3
Viscosity Index		149
Density @ 15 °C	g/cm ³	0.82
Pour Point	°C	-57
Flash Point	°C	264
Colour (ASTM 1500)		0

NOTE Values in this Technical Data Sheet are typical and do not constitute a specification. Manufacturing specifications are available on request. Routine oil analysis is recommended. Specifications are subject to change due to formulation or raw-material updates; always verify that this TDS is the most current version.

Rodutherm 717-100-SYN — Technical Data Sheet The data presented is typical and subject to normal manufacturing variation. For product safety information, please refer to the Safety Data Sheet.