



Rodutherm 717-68-SYN

Synthetic Ammonia Refrigeration Lubricant | Technical Data Sheet

Introduction

Rodutherm 717-68-SYN is a full synthetic polyalphaolefin (PAO) ammonia refrigeration lubricant for ultra-low-temperature service down to -57°C . Its wax-free, thermally stable formulation delivers lower carryover than both mineral and PAO/AB blends, making it the preferred choice for deep-freeze applications with oil return challenges. OEM approved by GEA, Mayekawa (Mycom), and Howden, and compliant with DIN 51503 KAA. Available in ISO VG 46 and 68.

Applications, Gases & Benefits

Applications	Gases	Benefits
▶ Ultra-low-temperature ammonia refrigeration ▶ Deep-freeze cold storage and blast freezing ▶ Systems with oil return challenges	▶ Ammonia R-717 (down to -57°C) ▶ OEM approved: GEA, Mycom, Howden ▶ DIN 51503 KAA compliant	▶ Superior low-temperature fluidity and oil return ▶ Lower carryover than mineral and PAO/AB blends ▶ Wax-free PAO formulation ▶ Minimizes defrost cycles ▶ Excellent seal compatibility ▶ Clean-running with extended service life

Technical Specifications

Property		717-46-SYN	717-68-SYN
Viscosity @ 40°C	cSt	46.2	64
Viscosity @ 100°C	cSt	7.8	10.2
Viscosity Index		139	145
Density @ 15°C	g/cm^3	0.83	0.83
Pour Point	$^{\circ}\text{C}$	-60	-57
Flash Point	$^{\circ}\text{C}$	262	264
Colour (ASTM 1500)		0	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 717-68-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.