

TECHNICAL DATA SHEET

NEXT 717-100-SYN

Synthetic Ammonia Heat Pump Lubricant

NEXT 717-100-SYN is a full synthetic polyalphaolefin (PAO) ammonia heat pump lubricant for high-pressure ammonia heat pump systems. Its highly stable PAO base stocks deliver lower lubricant carryover than mineral lubricants and PAO/AB blends.

Compliant with DIN 51503 (KAA), it offers superior low-temperature fluidity, very low carryover and excellent seal compatibility. Also available in ISO VG 150.

APPLICATIONS

- High-pressure ammonia heat pumps

GASES

- Ammonia (R-717)
- DIN 51503 (KAA) compliant

BENEFITS

- Meets DIN 51503 (KAA) requirements
- Superior low-temperature fluidity and lubricant return
- Very low lubricant carryover
- Excellent seal compatibility
- Minimizes defrost cycles
- Long fluid life
- Clean-running formulation
- Wax-free



TECHNICAL SPECIFICATIONS

Typical properties

717-100-SYN	
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. Minimum operating temperatures are based on low-temperature viscosity and refrigerant miscibility data; consult NEXT Lubricants for operations below the pour point. Routine oil analysis is recommended to assess the in-service condition of the lubricant. Specifications are subject to change due to formulation or raw-material updates; always verify that this TDS is the most current version.