

TECHNICAL DATA SHEET

NEXT 717-100-XLT

Semi-Synthetic Ammonia Heat Pump Lubricant

NEXT 717-100-XLT is a semi-synthetic blend of highly refined mineral and synthetic base stocks for high-pressure ammonia heat pump systems. The blend provides superior low-temperature fluidity, excellent seal compatibility and a very low lubricant carryover rate.

Advanced anti-wear and seal-conditioning additives help maintain vital system components, while advanced antioxidants and highly stable base stocks protect against thermal and oxidative degradation.

APPLICATIONS

- High-pressure ammonia heat pumps
- Reciprocating (piston) compressors
- Rotary screw compressors

GASES

- Ammonia (R-717)

BENEFITS

- Ideal for applications with lubricant return issues
- Long fluid life
- Excellent low-temperature fluidity
- Excellent wear protection
- Excellent seal compatibility



TECHNICAL SPECIFICATIONS

Typical properties

717-100-XLT	
Viscosity @ 40 °C (cSt)	100
Viscosity @ 100 °C (cSt)	13.3
Viscosity Index	134
Density @ 15 °C (g/cm ³)	0.85
Pour Point (°C)	-45
Flash Point (°C)	265
Rust Test (D665)	Pass

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.