

TECHNICAL DATA SHEET

NEXT 717-100

Ammonia Heat Pump Lubricant

NEXT 717-100 is a two-stage hydrocracked mineral ammonia heat pump lubricant developed for the high pressures and temperatures inherent to ammonia heat pump applications.

It contains advanced antioxidants and highly stable base stocks for protection against thermal and oxidative degradation, together with next-generation anti-wear additives that provide enhanced protection against wear and friction.

APPLICATIONS

- High-pressure ammonia heat pumps

GASES

- Ammonia (R-717)

BENEFITS

- Long fluid life
- Excellent thermal stability
- Excellent seal compatibility
- Excellent wear protection
- Excellent corrosion protection



TECHNICAL SPECIFICATIONS

Typical properties

	717-100
Viscosity @ 40 °C (cSt)	102
Viscosity @ 100 °C (cSt)	11.9
Viscosity Index	105
Density @ 15 °C (g/cm ³)	0.87
Pour Point (°C)	-33
Flash Point (°C)	270
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.