

# TEXOL

## Chemical

### *Technical Data Sheet*

#### **Texol Turbosyn™ VZF D-68 RCS**

Ultra high performance compressor fluids

#### **Customer benefits**

Texol Turbosyn VZF D-68 RCS delivers fully synthetic technology and performance to high output refrigeration compressors running with ammonia refrigerants in very low temperature evaporator environments.

With a very low pourpoint of down  $-57^{\circ}\text{C}$ , Turbosyn VZF D-68 RCS is completely additive-free and delivers exceptional thermal stability and oxidation resistance across a very wide temperature range. This advanced technology fluid is highly stable in the presence of ammonia and fluorinated hydrocarbons such as R-12 and R-22, maximising oil film integrity and equipment wear protection, reducing maintenance and service periods.

Turbosyn VZF D-68 RCS's high viscosity index performance provides excellent low viscosity at low temperature start up, maximising energy efficiency, and goes on to maintain this stable low viscosity right up to discharge temperatures in excess of  $+100^{\circ}\text{C}$ , optimising oil film performance and wear protection in severe operating conditions, over very long operating periods.

#### **Applications and Uses**

Turbosyn VZF D-68 RCS offers very low volatility performance when compared with conventional straight mineral refrigerants, significantly reducing oil consumption. This advanced and highly stable chemical stability also considerably improves heat transfer performance by maximising refrigeration fluid integrity through significantly reducing oil transfer to the refrigerant.

- Recommended for use in refrigeration and airconditioning systems using ammonia refrigerants, and requiring lubricants with excellent low temperature characteristics; particularly suitable for reciprocating and screw compressors operating at discharge temperatures exceeding  $+100^{\circ}\text{C}$ .
- Turbosyn VZF D-68 RCS oil satisfies low temperature requirements of ammonia refrigeration systems with minimum evaporator temperatures of  $60^{\circ}\text{C}$ .

#### **Performance**

- DIN 51.503
- BS 2626/1992

#### **Specifications**

- ABB Stal Refrigeration AB
- Sabroe
- Broedrene Gram

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#### **Characteristics**

Density 15°C, kg/l	0.834	ASTM D1298
Visc.Kinematic at 40°C	68.7	ISO 3104
Visc.Kinematic at 100°C	10.5	ISO 3104
Visc. Index	145	ISO 2909
Neutralization Nr,mg KOH/g	0.01	DIN 51558/1
Flash Point °C	260	ISO 2592
Pourpoint °C	-57	ISO 3016