

# ANDEROL® BDC 46

HIGH PERFORMANCE BIODEGRADABLE COMPRESSOR OIL (ISO VG 46)

## DESCRIPTION

**ANDEROL® BDC 46** is an ISO 46 grade, synthetic polyolester-based long life rotary compressor oil. This proprietary formulation offers outstanding thermal/oxidative stability while meeting the biodegradability requirements of OECD 301B.

## APPLICATIONS

**ANDEROL® BDC 46** is recommended for use in the following applications:

- Oil flooded rotary screw compressors
- Oil flooded rotary vane compressors
- Axial and centrifugal compressor
- Bearing applications including iron and copper-based sintered bearing materials
- Most mist lubricated applications

## FEATURES and BENEFITS

- Eliminates compressor lacquering, varnishing and deposits
- Minimizes oil carryover
- Outstanding metal “wetting” properties, substantial reduction in wear throughout the entire life of the product
- Rated at 10,000+ hours life at average discharge temperature of 195°F
- Long-life, reduced oil changes
- Energy savings
- Wide application range: fluid at low temperatures and stable at high temperatures
- High flash point, improved safety
- Based on a biodegradable synthetic ester which meets OECD 310B “Ultimate” biodegradability requirements of greater than 60%

## TYPICAL PROPERTIES:

PROPERTIES	TEST METHOD	ANDEROL <sup>®</sup> BDC 46
Viscosity, cSt	ASTM D 445	
@40 °C		45
@100 °C		7.94
Viscosity Index	ASTM D 2270	149
Pour Point, °C	ASTM D 97	-36
Flash Point, COC, °C	ASTM D 92	306
Specific Gravity, 60 °F (15.6 °C)	ASTM D 4052	0.972
Copper Strip Corrosion, ASTM	ASTM D 130	1B
Demulsibility @ 54 °C, mL oil/water/emulsion (min)	ASTM D 1401	37/39/4 (<30)
Four-Ball Wear, 1200 rpm, 167 °F (75 °C), 40 kg, 1 hour, mm	ASTM D 4172	0.45
Falex Pin & Vee, wear properties, # / inch	ASTM D 2670	1,250
Falex Pin & Vee, thin film properties, # / inch	ASTM D 5620	1,000
Specific Heat @ 65 °C, cal/g °C	ASTM D 5372	0.485
Specific Heat @ 121 °C, cal/g °C	ASTM D 5372	0.520
Ultimate Biodegradability, %	OECD 301B	>60
Foam Test, Sequence I, mL initial/mL final	ASTM D 892	0/0
Ferrous corrosion	ASTM D 665 A	Pass

## COMPATIBILITY

The following paints, plastics and seal & hose materials are recommended for use with ester-based synthetic lubricants (materials not recommended are also included). For more information please call ANDEROL Technical Services

**RECOMMENDED:** Fluoroelastomers, High Nitrile Buna N, Polytetrafluoroethylene, Acetal resin & copolymers, BPT, Epoxy Paint, Oil-resistant Alkyd Paint.

**NOT RECOMMENDED:** Neoprene, Low Nitrile Buna N, SBR rubber, Polystyrene, PVC, ABS, Lacquer, Acrylic Paint.

## PACKAGING

**ANDEROL<sup>®</sup> BDC 46** is available in 5-gallon pails and 55-gallon drums. Other packages may be available upon request.

ANBDC46:REV112910

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