

ROYCO[®] 886 and ROYCO 889

SYNTHETIC COMPRESSOR LUBRICANTS (NOMINAL ISO VG 100 and 150)

DESCRIPTION

ROYCO[®] 886 and **ROYCO[®] 889** are polyalkylene glycol-based (PAG-based) synthetic lubricants formulated for use in gas compression applications that require wide operating temperature ranges and minimum interaction between the lubricant and the process gas.

APPLICATIONS

ROYCO 886 and **ROYCO 889** are intended for the lubrication of flooded rotary screw and vane-type compressors processing carbon dioxide, natural gas or other hydrocarbon gases.

ROYCO 886 and **ROYCO 889** may also be used as cylinder lubricants for reciprocating compressors processing natural gas, carbon dioxide and other gases that require chemical resistance in a nominal ISO 100 or ISO 150 viscosity grade, respectively.

ADVANTGES

- Resists wash off by hydrocarbon gases and liquids
- Resists absorption into the gas phase and carry-over of the lubricant downstream
- Minimizes dilution effects due to insolubility of the lubricant with hydrocarbons
- Higher film-strength than traditional lubricants
- Protects against corrosion
- Fully compatible with most compressor component materials, including: seals, gaskets, hoses, etc.

TYPICAL PROPERTIES:

PROPERTIES	TEST METHOD	ROYCO® 886	ROYCO® 889
Viscosity, cSt	ASTM D 445		
@0°C	ASTM D 445	766	1,250
@40°C	ASTM D 445	85	131
@100°C	ASTM D 445	17.2	25.2
Viscosity Index	ASTM D 2270	218	222
Pour Point, °C	ASTM D 97	-44	-44
Flash Point, COC, °C	ASTM D 92	294	291
Fire Point, °C	ASTM D 92	308	310
Specific Gravity, 60°F	ASTM D 4052	1.044	1.050
Copper Strip Corrosion, ASTM	ASTM D 130	1B	1B
Foam Test, ASTM Seq 1, mL initial, mL final	ASTM D 892	0/0	0/0
Acid number, mg KOH/g,	ASTM D 664	0.02	0.03
Water Content, %	ASTM D 6304	<0.05	<0.05

COMPATIBILITY

RECOMMENDED: Acetone, Alcohol, Asbestos, Butyl Dioctol, Chlorinated Solvents, Glycol Ether, Neoprene, Epoxy Paint, Silicone Rubber, Toluene, Torlon (AMOCO), Vespal (DuPont), and Viton (DuPont).

APPLICATION DEPENDENT: Ethylene Glycol, Triethanolamine and Water.

NOT RECOMMENDED: Gasoline, Glycerol, Heptane, Kerosene, Leather, Methanol and Oil-based paint.

PACKAGING

ROYCO® 886 and **ROYCO® 889** are available in 5-gallon pails and 55-gallon drums. Other packages may be available upon request.

R886 R889:REV112910

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