

### REFRIGERATION OILS

#### Description:

When a refrigerant gas is compressed, it gets heated. This compressed gas is made to give up its heat and may condense into a liquid. This, when allowed to expand, gets further chilled. The chilled gas is then used to refrigerate the material and the cycle is repeated.

#### Salient Features:

**IPOL Refrigeration Oils** are manufactured from specially selected base oils that possess low temperature fluidity and good chemical stability. These oils have inherent oxidation resistant characteristics and high dielectric strength needed by sealed units of air conditioners and refrigerators.

**IPOL Refrigeration Oils** are available in the following grades.

- **IPOL COOL PRESS 12** is the lightest refrigeration oil with a very low pour points.
- **IPOL COOL PRESS 46** is a medium viscosity refrigeration oil recommended for rotary compressors.
- **IPOL COOL PRESS 68** is recommended for lubrication of both reciprocating as well as for rotary compressors.
- **IPOL COOL PRESS 100** is the highest viscosity naphthenic oil with a low pour point.
- **IPOL COOL PRESS 32 FR** is a light grade oil with a low Freon floc suitable for hermetically sealed compressors.
- **IPOL COOL PRESS 57 FR** is a heavy grade oil with a low Freon floc point required for compressors using Freon as the refrigerant.

## Product Data

### Applications:

**IPOL Refrigeration Oils** are used to lubricate the pistons, cylinders and bearings of centrifugal and reciprocating compressors used in refrigeration systems.

These oils are compatible with the refrigerant in use and do not solidify at the operating temperatures.

### Benefits:

**IPOL COOL PRESS OILS** offer the below mentioned BENEFITS:-

- They have low deposit forming tendency.
- Offer uninterrupted service.
- Good thermal and oxidation stability
- Are economical to use.

### Typical Results: IPOL Refrigeration Oils

Characteristics	Test Methods	IPOL COOL PRESS					
		12	46	68	100	32 FR	57 FR
Appearance	Visual	Bright & Clear					
Sp. Gravity @30°C	IS 1448 / P-32	0.825	0.862	0.880	0.890	0.907 *	0.913*
Flash Point COC°C	D 92	142	162	172	202	154	166
Pour Point °C	D 97	-39	-27	-24	-24	-30	-24
Viscosity cSt @ 40°C	D 445	13	45	64	95	34	56

\* Density at 15°C

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