

COMP R

Mineral Oil-Based
Refrigeration Oils

MaxPro1 Comp R-Series Refrigeration Oil is a highly refined naphthenic oil, with excellent low temperature properties and a very low wax content, helping to avoid floc formation problems while in service. It exhibit good cleanliness with lesser sludge and deposit build up in the system. These oils are developed primarily for use in reciprocating and rotary screw compressors in refrigeration systems using ammonia, carbon dioxide or non-HFC refrigerants.

MaxPro1 Comp R-Series meets the performance requirements of leading OEMs for use in refrigeration system compressors where the manufacturer specifies a naphthenic mineral oil. It provides very good chemical stability with ammonia as a refrigerant, and exhibits good oxidative and thermal stability.



APPLICATIONS

MaxPro1 Comp R-Series Refrigeration Oils are designed mainly for the lubrication of compressors with ammonia (R717) as refrigerant. It may also be used with hydrocarbon (e.g. R600a) and halogenated hydrocarbon (R12, R22). The common grades are ISO VG 46 and 68, but other ISO VG oils can also be produced on specific requests.

NOTE: This product is not intended for use with HFC (hydrofluorocarbon) refrigerants or their mixtures (R-23, R-125, R-134a, R-143a, R-152a, R-404a, R-500, R-507).

Ammonia Systems: Comp R-Series can be used in ammonia refrigeration systems where evaporator temperatures are as low as -36°C (-33°F).



Revision 23/09/15 Superseding
issue of

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FEATURES AND BENEFITS

- Excellent low-temperature flow and evaporator heat transfer
- Wax-free
- Good oxidation stability
- Low carbon-forming tendency
- Excellent miscibility with non-HFC refrigerants
- Suitability for both cylinders and bearings reduces oil inventories
- Light colour
- Long service life cuts downtime and therefore potentially lowers maintenance costs

TYPICAL PHYSICAL CHARACTERISTICS

| ISO Viscosity Grade | 15 | 32 | 46 | 68 | 100 |
|---|-------------|-------------|-------------|-------------|-------------|
| Product Code | 6080 | 6081 | 6082 | 6083 | 6084 |
| Viscosity, ASTM D 445, cSt @ 40°C | 15 | 32 | 46 | 68 | 100 |
| Viscosity, ASTM D 445, cSt @ 100°C | 3.1 | 4.6 | 5.6 | 7.0 | 8.8 |
| Pour Point, °C, ASTM D 97 | -45 | -42 | -36 | -36 | -36 |
| Flash Point, °C, ASTM D 92 | 170 | 190 | 200 | 200 | 200 |
| Specific Gravity @15° C/15° C, ASTM D 1298 | 0.886 | 0.89 | 0.897 | 0.9 | 0.91 |
| Total Acid Number, ASTM D 974, mg KOH/g | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| Copper Strip Corrosion, ASTM D130, 3 h @ 100° C | 1a | 1a | 1a | 1a | 1a |

The information provided is to our best knowledge, true & accurate, subjected to change without notification due to continual product research and development.

Available Size & Part Number

| | 18L | 200L |
|-------------------|----------------|-----------------|
| Comp R 15 | 6080-18 | 6080-200 |
| Comp R 32 | 6081-18 | 6081-200 |
| Comp R 46 | 6082-18 | 6082-200 |
| Comp R 68 | 6083-18 | 6083-200 |
| Comp R 100 | 6084-18 | 6084-200 |



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