



Refrigerator/Compressor Oils



Refrigerator/Compressor Oils (Mineral) • Refrigerator/Compressor Oils (Synthetic Base)



Amalie Refrigerator/Compressor Oils (Mineral) are recommended for use in industrial refrigeration compressors operating on ammonia, propane, and many Freon (CFC)-type refrigerants. **Amalie Refrigerator/Compressor Oils (Mineral)** are not suitable for use with HFC refrigerants. These **Refrigerator/Compressor Oils** are formulated to provide outstanding oxidation and rust inhibition, and to minimize any tendency for foaming. **Amalie Refrigerator/Compressor Oils (Mineral)** are suitable for use with R-12, R-22, R-502 (CFC/HCFC) refrigerants and ammonia. **Amalie Refrigerator/Compressor Oils (Mineral)** are formulated with highly refined naphthenic base oils to ensure excellent fluidity properties.

These oils offer the following features:

- Low pour points and Freon floc points that prevent low temperature fluidity loss.
- Excellent oxidation stability which reduces oil thickening and deposit formation.
- Excellent lubricity which guards against wear of compressor parts.
- Outstanding viscosity/temperature characteristics.
- Excellent thermal stability minimizes formation of gum, varnish, and sludge.

Amalie Refrigerator/Compressor Oils (Synthetic) are high quality full-synthetic lubricants formulated to meet the most severe requirements of rotary vane, rotary screw and reciprocating compressors. The technology used in **Amalie Synthetic Refrigerator/Compressor Oils (Synthetic)** has had several years of field experience in many applications.

These oils offer the following features:

- Extended oil change intervals, reducing servicing costs to a minimum
- Reduced air separator blocking and extended maintenance intervals.
- Excellent compatibility with seals, paints, and the air line system.
- Outstanding viscosity/temperature characteristics.
- Low volatility, leading to low oil carry-over and cleaner operation at lower cost.
- Approval by Atlas Copco for rotary screw compressors with extended oil change.
- Increased oxidation protection and superior thermal stability.
- Strong wear protection and corrosion protection.
- Very low sludge forming tendencies.
- Excellent air and water separation.

Some performance levels are limited by viscosity grades. Please consult the Amalie Performance Application Chart, the Amalie Inspection Data Table for the appropriate Amalie product or contact your Amalie District Manager for more complete information and recommendations.

TYPICAL INSPECTION DATA –

	ISO grade	API Gravity	Flash Point C.	Viscosity cSt@40C	Viscosity Index	Floc Point, C.	Pour Point, C.
Refrigerator	32	29.5	200	30.4	100	-50	-40
Compressor	68	30.5	210	68.0	100	-50	-40
Oils (Mineral)	100	30.0	220	100.0	100	-50	-40
Refrigerator	32	36.0	210	32.0	130	-50	-40
Compressor	46	35.7	210	46.0	130	-50	-40
Oils	68	35.4	220	68.0	135	-50	-40
(Synthetic)	100	35.2	220	100.0	140	-50	-40

PERFORMANCE APPLICATION CHART

SPECIFICATIONS	Refrigerator/Compressor Oils (Mineral)	Refrigerator/Compressor Oils (Synthetic)
British Standard BS 2626	√	√
Compatibility:		
Chlorfluorocarbon (CFC/HCFC)	Yes	Yes
Ammonia or Carbon Dioxide	Yes	Yes
Sulfur Dioxide	No	No
Hydrofluorocarbon (HFC)	No	No
Advantages:		
Low Pour Point	√	√
Low Floc Point	√	√
High Dielectric Strength	√	√
High Lubricity	√	√
Wax Free	√	√
Chemical Stability	√	√
Thermal Stability	√	√