

ChampLub Synthetic Lubricant MATERIALS COMPATIBILITY

The most meaningful evaluation of compatibility of an oil with various seals, plastics, paints and metals is in actual field testing and customer usage. Our experience has shown that ChampLub synthetic lubricant has performed equally as well as conventional compressor oils with seals, paints, metals, and plastics normally used in oil applications. We are not aware of any compatibility problems in either controlled tests or extensive service usage. The following is a list of materials which are Suitable, Marginal, or Not Recommended, based on laboratory testing.

Paints:

Suitable

Epoxy
2-Component Urethane
Moisture-cured Urethane
Baked Phenolic
Oil Resistant Alkyd

Marginal

Single Component Urethane
Industrial Latex

Not Recommended

Varnish
Vinyl (PVC)
Acrylic
Lacquer
Household Latex

Plastics:

Suitable

Fluorocarbon (Teflon)
Nylon
Polyacetal (Delrin, Celcon)

Marginal

Polyurethane
Polyethylene
Polypropylene
Acrylic (Lucite, Plexiglas)
Polysulfone
Phenylene Oxide (Noryl)

Not Recommended

Polycarbonate (Lexane)
ABS (acrylonitrile, butadiene, styrene)
PVC (polyvinyl chloride)
Polystyrene

Seals:

Suitable

Fluorocarbons (Teflon, Viton)
Nitrile Rubber (Buna-N, NBR, with nitrile content over 36%)
Polysulfide
Fluorosilicone

Marginal

Silicone Rubber
Nitrile Rubber (Buna-N, NBR with nitrile content from 30-36%)
Polyurethane
Ethylene-Propylene Terpolymer
Polyacrylate Rubber
Epichlorohydrin

Not Recommended

Natural Rubber
Nitrile Rubber (Buna-N, NBR with nitrile content below 30%)
Neoprene
Styrene-Butadiene Rubber
Butyl Rubber
Chlorosulfonated Polyethylene