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TECHNICAL BULLETIN #61

AR-GLO® FORMULATIONS AND APPLICATIONS

AR-GLO UV-fluorescent leak detection additives for air conditioning and refrigeration applications are available in *five* different formulations.

1. **AR-GLO** is formulated with mineral oil and is designed for use in systems lubricated with ***mineral oils.***
2. **AR-GLO/E** is formulated with a polyol ester-based lubricant and is designed for use in systems lubricated with ***ester-based oils.***
3. **AR-GLO/PAG** is formulated with a polyalkylene glycol (PAG)-based lubricant and is designed for use in systems lubricated with ***PAG-based oils.***
4. **AR-GLO/LT** is formulated with an alkyl benzene-based lubricant and is designed for use in systems lubricated with ***alkyl benzene-based oils.***

Be sure to carefully select the correct AR-GLO fluorescent additive for each application!

Although the four AR-GLO formulations mentioned above are manufactured using different base oils, they are all equally fluorescent under ultraviolet light. The dosages required to effectively treat a system remain the same.

5. Another AR-GLO formulation which is presently available is **AR-GLO/OL** (patent pending). This material is designed for use in ***oilless systems.*** These can be either condensing systems or simple heat transfer fluid loops. AR-GLO/OL will effectively treat heat transfer systems as long as the heat transfer fluid will take an oil into solution. Be sure that any "oil-free" system in which AR-GLO/OL is to be used is *truly* free of oil. Experience has shown that many of these systems have oil in their lines from service or built-in recovery systems. If this is the case, make certain that the AR-GLO/OL is compatible with the pre-existing lubricant. Other formulations of AR-GLO/OL are available from Spectronics for these applications. AR-GLO/OL is formulated with an alkyl benzene-based lubricant.

   A small amount of a lubricant different from the lubricant which resides within a system might be tolerable. However, to assure safe and efficient leak detection, *only* the proper AR-GLO formulation should be used.

AR-GLO FORMULATION

SYSTEM LUBRICANT	AR-GLO	AR-GLO/E	AR-GLO/PAG	AR-GLO/LT	AR-GLO/OL
Mineral Oil	X				
Polyol Ester		X			
Polyalkylene Glycol			X		
Alkyl Benzene				X	
None					X

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