

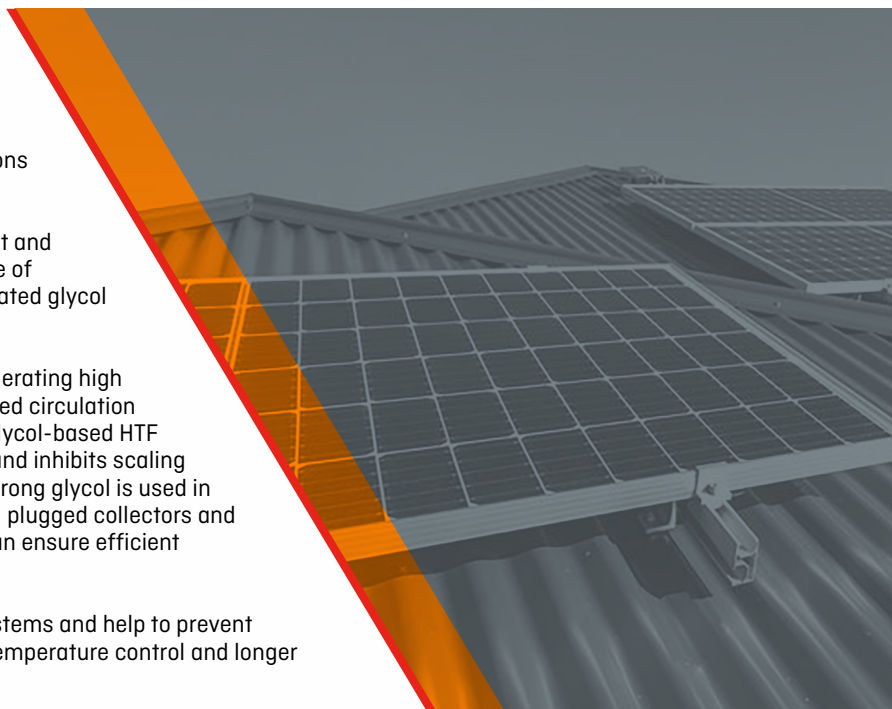
HEATING/COOLING BUILDINGS AND ENERGY GENERATION WITH THE POWER OF THE SUN REQUIRES MORE THAN JUST A SUNNY DAY

Glycol-based heat transfer fluids (HTF) are an important part of the proper functioning of many solar thermal systems in different regions of the country.

Solar thermal applications are exposed to periods of prolonged heat and cold, and, as a result, the HTF needs to be able to withstand a range of conditions. This is done through mixing water with specially formulated glycol to avoid freezing or other adverse impact.

Solar water heating systems have the distinct characteristic of generating high fluid temperatures during summer stagnation conditions. In a forced circulation system, a mechanical pump is utilized to efficiently circulate the glycol-based HTF throughout the system. The HTF protects the piping from freezing and inhibits scaling deposits that can reduce performance in indirect systems. If the wrong glycol is used in a solar water heating system, the fluid can break down, resulting in plugged collectors and blocked pumps. Proper application and maintenance of the HTF can ensure efficient operation and greater longevity.

THERMAL CHARGE® will support the efficient operation of these systems and help to prevent corrosion and fouling of heat transfer surfaces to ensure optimal temperature control and longer equipment life.



THE SOLUTIONS USED IN SOLAR APPLICATIONS ARE ALSO USED GLOBALLY ACROSS MANY OTHER APPLICATIONS, INCLUDING:

- Food industry for refrigeration and chilling of food and beverage products
- Hydronic heating and snow melt systems
- Chill water loops and thermal energy storage
- Geothermal (ground source heat pumps) and solar hot water heating
- Building and construction industry for HVAC systems (heat ventilation and air conditioning)

THERMAL CHARGE® PGHD



THERMAL CHARGE® PGHD heat transfer fluid is a formulation of 95%-96% propylene glycol and a specially formulated package of industrial inhibitors. THERMAL CHARGE® PGHD is often used in higher temperature applications and solar systems and is well suited for HVAC applications because its inhibitor package offers additional corrosion protection for systems containing copper components. This product is fluorescent yellow.



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For further information, visit www.thermalcharge.com
or call 1-800-323-5440 for sales manager referral.

Manufactured by Old World Industries, LLC. Northbrook, IL 60062

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