GRAPHENE INTEGRATIONS
SCIENCE MEETS SOLUTIONS

GRAPHENE THERMAGRAPH™ COOLANT

Graphene coolant for closed-loop data center and HVAC cooling

WHAT IT IS
A ready-to-use graphene coolant in deionized water for closed cooling loops: a complete fill, not a top-off.

WHERE IT'S USED
Indoor data center loops (CDU, direct-to-chip, rear-door heat exchangers); also designed for closed-loop HVAC systems such as chilled-water and hydronic heating and cooling loops where freeze protection is not required.

HOW IT'S SUPPLIED
Ready-to-use fluid. Graphene pre-dispersed in deionized water, no glycol. Supplied in a 5 gal pail, 55 gal drum or 275 gal tote. Quote only.

USE
Ready to use as a complete fill (not a top-off). Graphene loading 0.05–0.20 wt%, stated on the certificate of analysis.

SIZES
5 gal pail, 55 gal drum and 275 gal tote

ELECTRICAL & THERMAL
Formulated for low electrical conductivity and enhanced thermal conductivity. Low electrical conductivity reduces shorting and corrosion risk around electronics if a leak or contact happens; high thermal conductivity moves heat away faster. Not a dielectric. Measured values are reported on each lot's Certificate of Analysis.

IF IT LEAKS
Non-toxic, glycol-free: deionized water (≥99.8%) and graphene, not classified as hazardous under GHS (see SDS). Compares favorably with ethylene or propylene glycol coolants. Standard leak detection and power isolation still apply.

DATA CENTER TEST RESULTS
Data center only: 6-18% better heat transfer vs glycol (internal testing results); modeled savings up to ~$1.2M/yr (20 MW) and ~$6M/yr (100 MW) at PUE 1.44 (GI model assumption: 10% to 29% cooling-energy reduction). Not measured. No HVAC figures

Safety Data Sheet: **grapheneintegrations.com/sites/default/files/sds/ThermaGraph-SDS.pdf**. Technical data sheet on request. Shake well before using.

Request a quote or a 30-day sample at grapheneintegrations.com/store

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