

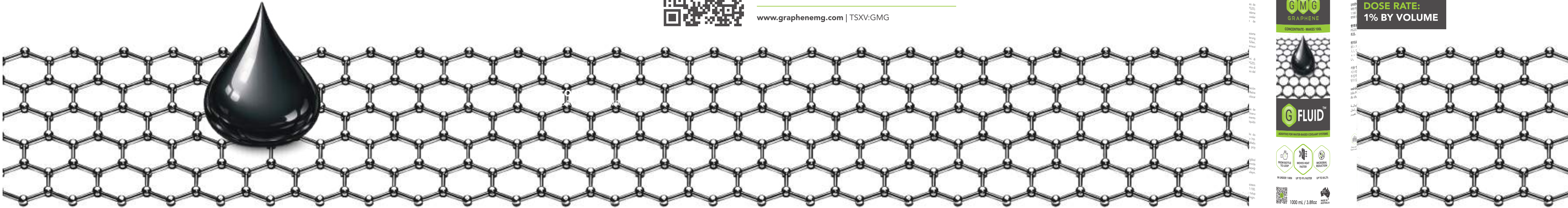
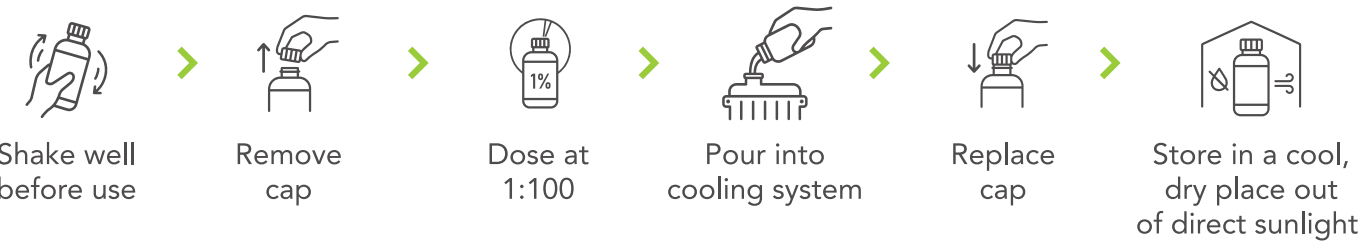
HOW MUCH DO YOU NEED?

DOSE RATE: 1% by volume. Shake well before use – settling may occur.
1 L treats up to 100 L of coolant.

DOSAGE TABLE						
Cooling System Volume	5 L	15 L	25 L	50 L	75 L	100 L
G FLUID™ Dose	50 ml	150 ml	250 ml	500 ml	750 ml	1000 ml

APPLICATION STEPS

FROM BOTTLE TO LOOP
IN UNDER A MINUTE



WHERE IT FITS

DESIGNED FOR WATER-BASED COOLING SYSTEMS, INCLUDING:

- Data centre liquid cooling
- Industrial process cooling loops
- Electronics and power cooling
- Closed water-based coolant systems
- Vehicle radiator cooling systems

Keep the container closed when not in use. Store in a cool, dry, well-ventilated place. Protect from freezing and direct sunlight. Shelf life is 3 years from date of manufacture, for both unopened and opened containers when stored as directed. See product documentation and the Safety Data Sheet before use.



SEE WHAT GFLUID™ CAN DO IN YOUR SYSTEM

Tell us about your cooling loop and we'll take it from there.



GET IN TOUCH

+61 7 3063 6638 • info@graphenemg.com

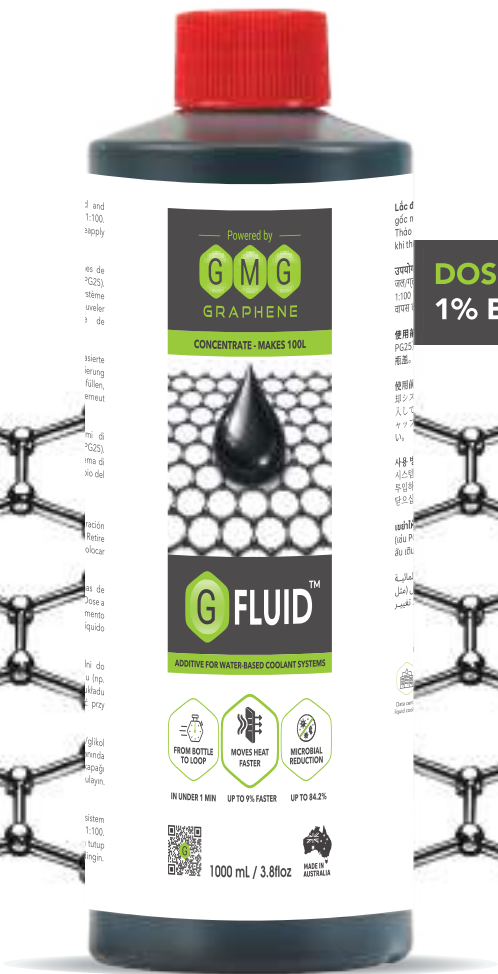


© Copyright Graphene Manufacturing Group Ltd (GMG)
All rights reserved.
All trademarks mentioned in this publication are owned by Graphene Manufacturing Group Ltd.
www.graphenemg.com | TSXV:GMG



GET MORE HEAT OUT OF THE LOOP YOU ALREADY HAVE

A GRAPHENE CONCENTRATE FOR WATER-BASED COOLING



GFLUID™

GOES INTO YOUR EXISTING WATER-BASED COOLANT. IT HELPS THE FLUID CARRY HEAT AWAY FASTER.

~20% FASTER HEAT TRANSFER

MADE IN AUSTRALIA · INDUSTRIAL AND PROFESSIONAL USE · PATENT PENDING

| WHAT IT DOES

When your heat load climbs, your usual options get expensive fast. Bigger pumps. More coils. Another chiller.

GFLUID™ gives you a simpler place to start. You add it to your water-based coolant, and the coolant gets better at moving heat - so you get more from the equipment you already run.

| HOW IT WORKS

A DIFFERENT APPROACH TO HEAT TRANSFER

GFLUID™ improves heat transfer from within the fluid itself, using few-layer graphene we produce in-house – so we control the quality from synthesis through to your coolant loop.



HEAT MOVES FASTER

Graphene improves heat transfer in your coolant, so the fluid carries more heat away.



WORKS WITH WHAT YOU HAVE

GFLUID™ is water-based and made for existing coolant loops. No redesign, no new hardware.



SAFE TO HANDLE AND SHIP

Not classified as hazardous under the Globally Harmonised System (as adopted in Australia). Not a Dangerous Good for transport.



MADE END TO END BY US

We're vertically integrated. We make our own graphene from methane gas and formulate our own graphene-enhanced products, so we control quality and supply.



VISIBLE LEAK DETECTION

Black colour doubles as a visual dose and leak indicator – spot issues at a glance.



ADVANCED GRAPHENE.
EFFORTLESS INTEGRATION.

UPGRADE THE FLUID,
NOT THE SYSTEM.

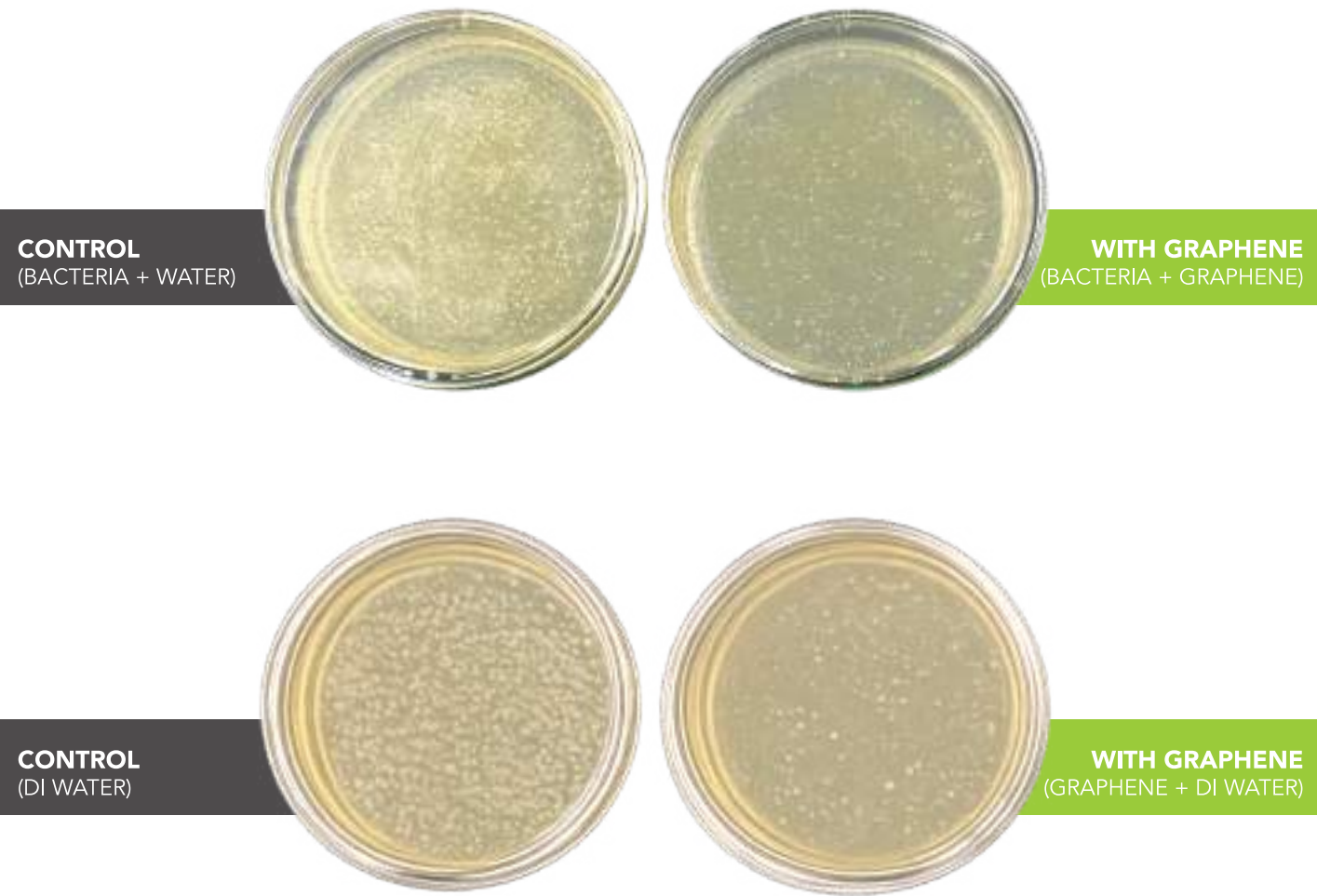


SMARTER HEAT TRANSFER.

COMPLETE CONTROL
FROM GRAPHENE
TO COOLANT LOOP.

| LAB SCALE BACTERIA CULTURE TEST

Untreated vs graphene-treated samples:



| TECHNICAL SPECIFICATIONS

Tested against untreated PG25 coolant

PARAMETER	TEST METHOD / STANDARD	PG25 BASELINE (CURRENT)	GMG G-FLUID ADDITIVE (RESULT)
Base fluid type	—	75% water + 25% propylene glycol	PG25 + 1% G-Fluid
Colour	Visual assessment	—	Black – visual dose / leak indicator
Thermal conductivity (k)	ASTM D7896 (Transient Hot Wire)	0.64 W/m·K	0.69 W/m·K (7% improvement)
Heat transfer coefficient	Lab test using DI water	N/A	~20% higher heat transfer coefficient
Viscosity @ 40°C	ASTM D445	~1.5 cSt	~1.5 cSt (comparable)
pH of solution	ASTM E70	6.5-7.5	6.5-7.5
Flash point	ASTM D92/D93	N/A (water-based)	N/A (water-based)
Graphene / nano loading	Gravimetric / TGA	N/A	0.01% in final mix
Colloidal stability (24h)	Visual / centrifuge	N/A (no particles)	Stable – no visible agglomeration
Clogging risk	—	None (dissolved)	None (dissolved)
Loop applicability	—	Primary / Secondary	Both
Acute oral toxicity	OECD 423 or equiv.*	Low (food-grade PG)	Low (water-based system)
Long-term sedimentation	Centrifugal test	N/A	Stable at 1790 G for 10 min (@ 4000 rpm)

| ANTIMICROBIAL - EN 1276 TESTED

ORGANISM	TEST STANDARD	MICROBIAL REDUCTION
Staphylococcus aureus (ATCC 6538)	EN 1276	84.2%
Escherichia coli (ATCC 10538)	EN 1276	60.2%
Pseudomonas aeruginosa (ATCC 15442)	EN 1276	87.4%
Enterococcus hirae (ATCC 10541)	EN 1276	50.1%
Microbacterium sp.	EN 1276	50.0%
Legionella pneumophila bactericidal activity	EN 1276	50.0%