METALLIUM LIMITED
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Australia: Perth, Western Australia
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COMPLETION OF U.S. DEPARTMENT OF WAR PROGRAM TO ADVANCE DOMESTIC GALLIUM SUPPLY

KEY HIGHLIGHTS:

- **Successful completion of Phase I Small Business Innovation Research (SBIR) contract with the U.S. Department of War through the Defense Logistics Agency (DLA).**
- **All technical milestones achieved or exceeded, demonstrating recovery of gallium from semiconductor and electronic waste streams using Metallium's Flash Joule Heating (FJH) technology.**
- **Program delivered in six months – approximately half the typical SBIR Phase I timeline, highlighting the maturity and readiness of the technology platform.**
- **Gallium is a defence-critical material used in radar, semiconductors and advanced communications systems.**
- **The U.S. is 100% dependent on imports for gallium supply, with China responsible for approximately 100% of global primary gallium production.**
- **Metallium's technology provides a pathway to recover gallium from alternative sources, supporting development of secure domestic supply chains for critical materials.**
- **Potential for SBIR Phase II funding (up to US$1 million) and further collaboration with U.S. federal agencies.**
- **Compliments Metallium's recently announced collaboration with Indium Corporation, a major U.S. refiner of Gallium, Germanium and other critical metals used in electronics, AI and defense[1].**

Metallium Limited ("Metallium" or the "Company") (ASX: MTM; OTCQX: MTMCF; OTCQX ADR: MTLMY) is pleased to announce that Flash Metals Texas Inc., a 100% owned subsidiary of Metallium Ltd, has successfully completed Phase I of its Small Business Innovation Research (SBIR) contract with the U.S. Department of War (DoW) through the Defense Logistics Agency (DLA).

The program, titled **"Domestic Recovery of Gallium from Waste through Flash Electrothermal Chlorination",** applied Metallium's proprietary FJH metal recovery technology to recover gallium from gallium-rich waste streams including semiconductor scrap and electronic waste materials. These feedstocks commonly contain **germanium and other valuable strategic metals**, expanding the potential impact of the technology across multiple critical material supply chains.

The Company achieved or exceeded all technical milestones under the contract and delivered the required workstreams within **six months**, significantly faster than the typical twelve-month SBIR Phase I program duration.

Completion of the program represents **Metallium's first completed U.S. federal government contract**, demonstrating the Company's capability to execute successfully within the U.S. DoW innovation ecosystem and positioning it for further engagement across defence-related programs.

Metallium's President of U.S. Operations Steve Ragiel commented: *"Successfully completing our first U.S. DoW program is an important milestone for Metallium. More than the contract value itself, the program validates the capability of our Flash Joule Heating technology to address a key national security challenge for the United States.*

"Gallium is a critical material used in advanced semiconductors, radar systems, satellite electronics and next-generation defence technologies. Demonstrating a pathway to recover gallium domestically from waste streams aligns directly with U.S. strategic objectives to build resilient supply chains for defence-critical minerals. Completing the program in half the typical timeframe also highlights the maturity of our technology platform and the strength of our team. We look forward to pursuing further opportunities with the DoW and other U.S. federal agencies as we move toward commercial deployment."

[1] See ASX:MTM announcement dated 31/03/2026, '*Offtake Agreement with Indium Corp for Gallium & Germanium*'.

PROGRAM EXECUTION

The SBIR Phase I program progressed across several technical workstreams designed to demonstrate the feasibility of recovering gallium using Metallium's FJH process, including:

- Thermodynamic modelling and process design
- Flash Joule Heating chlorination trials and optimisation
- Materials characterisation and yield analysis
- Real-time monitoring and process control development
- Preliminary techno-economic and environmental assessment

Successful completion of these workstreams further advances Metallium's proprietary **Flash Joule Heating electrothermal chlorination platform**, which rapidly liberates metals from complex feedstocks through ultra-fast electrical heating and chloride-based chemistry.

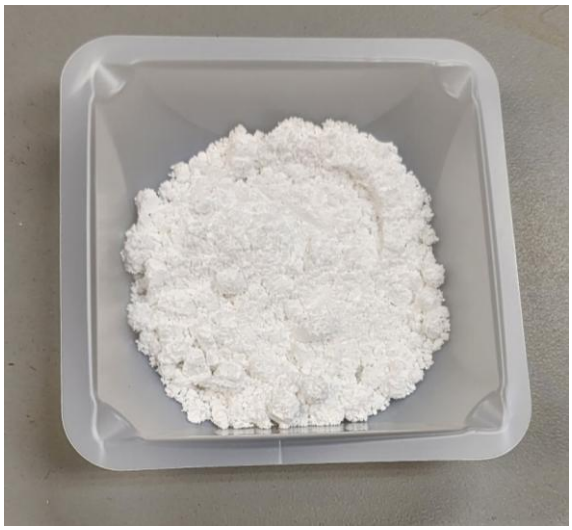

Figure 1: *High purity* ***Gallium Oxide powder product*** *recovered from Gallium-bearing scrap feedstock using FJH process*

STRATEGIC IMPORTANCE

Gallium is designated by the United States government as a **critical mineral essential for defence systems, semiconductors and advanced communications technologies**. Gallium compounds such as **gallium nitride (GaN)** and **gallium arsenide (GaAs)** are widely used in:

- High-frequency radar systems
- Satellite and aerospace electronics
- Missile guidance systems and defence sensors
- Advanced semiconductors and power electronics
- 5G communications infrastructure

Global gallium supply is **extremely concentrated geographically**. According to the **United States Geological Survey (USGS)**, China accounts for approximately **100% of global primary gallium production**, while the United States is **essentially 100% dependent on imports** to meet its gallium demand (USGS, 2025).

This concentration has led to increased focus from the **U.S. DoW and allied governments to develop alternative domestic and allied supply pathways** for gallium and related semiconductor materials.

Metallium's Flash Joule Heating technology provides a pathway to **recover gallium from alternative feedstocks**, including semiconductor scrap and electronic waste streams. By extracting gallium from these existing waste materials, the technology has the potential to help **diversify supply sources, reduce reliance on primary gallium production concentrated in a single jurisdiction, and strengthen U.S. defence and semiconductor supply chains**.

NEXT STEPS

Completion of the Phase I SBIR program positions Metallium to pursue **Phase II SBIR funding of up to US$1 million**, which would support further development and pilot-scale deployment of the technology.

In parallel, Metallium continues to advance development of its FJH platform at the Company's **Gator Point Technology Campus in Chambers County, Texas**, where systems are being commissioned to process high-value waste feedstocks.

This announcement has been authorised for release by the Managing Director of Metallium Limited.

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Reference: USGS (2025) *Mineral Commodity Summaries: Gallium*. United States Geological Survey.

ABOUT METALLIUM LIMITED

METALLIUM

Metallium Ltd (ABN 27 645 885 463), is pioneering a low-carbon, high-efficiency approach to recovering critical and precious metals from mineral concentrates and high-grade waste streams. The company's patented **Flash Joule Heating (FJH)** technology enables the extraction of high-value materials, including **gallium, germanium, antimony, rare earth elements, and gold** — from feedstocks such as refinery scrap, e-waste, and monazite.

Aligned with U.S. strategic supply chain objectives, Metallium has recently secured its first commercial site in Texas via its wholly owned subsidiary, **Flash Metals USA Inc.**, marking a major step toward near-term production and revenue generation.

To learn more, visit:

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