



**FOR IMMEDIATE RELEASE**

## **RASIRC Launches Nitride Hub to Accelerate Metal Nitride Film Development for Semiconductor Industry**

**San Diego, CA — February 20<sup>th</sup>, 2025 — RASIRC**, a leader in gas delivery systems for semiconductor manufacturing, announces the opening of the **Nitride Hub**—the industry’s first dedicated facility for rapid, side-by-side screening of metal nitride precursors using multiple nitrogen reactants, including **BRUTE® Hydrazine**, the only semiconductor-grade hydrazine available.

The Nitride Hub provides precursor manufacturers and end users a controlled, IP-secure environment to evaluate novel precursors under identical conditions. This enables faster chemical screening and material adoption for advanced semiconductor nodes.

Key Features of the Nitride Hub:

- **Rapid Precursor Screening** – Direct comparisons of BRUTE® Hydrazine (thermal ALD), NH<sub>3</sub> (thermal ALD), and NH<sub>3</sub> (plasma ALD) at deposition temperatures from 200–500°C.
- **IP Protection** – Strict confidentiality agreements ensure precursor data remains secure.
- **Enabling Metal Organic Precursors** – BRUTE® Hydrazine’s higher reactivity at lower temperatures (<350°C) allows the use of metal organic precursors that decompose at the higher temperatures required for NH<sub>3</sub> reactions.
- **Cleaner, Higher-Quality Films** – BRUTE® Hydrazine reduces ligand and oxygen contamination, resulting in improved film purity at lower process temperatures.

“The Nitride Hub removes a major barrier in metal nitride process development by providing a secure, dedicated space for precursor testing,” said **Jeff Spiegelman, CEO of RASIRC**. “By enabling direct comparisons under real deposition conditions, we accelerate innovation in semiconductor materials.”

### **About RASIRC**

RASIRC transforms gas and liquid delivery for semiconductor manufacturing. BRUTE® Hydrazine is the only semiconductor-grade hydrazine, enabling low-temperature, high-purity nitride film deposition. Learn more at [www.rasirc.com](http://www.rasirc.com).

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