

Transforming Rare Earth Concentrate Production:
Tusaar's Proprietary Chromatographic Separation Technology Leads the Way

We are excited to announce a major milestone for Tusaar Corp. in rare earth concentrate production. Our successful, US Dept. Of Defense funded pilot plant operation, employing cutting-edge extraction processes, showcased the viability of sourcing rare earth concentrate from a variety of domestic materials, including ores, mine waste, and recycled magnets.

The foundation of our success lies in the innovative and proprietary chromatographic separation technology we have developed. This state-of-the-art approach revolutionizes the rare earth element extraction process, offering distinct advantages over traditional methods.

Key Advantages of Our Proprietary Chromatographic Separation Technology:

1. Diverse Source Utilization:

- The pilot performance exhibited our ability to efficiently process various sources, diversifying the supply chain and contributing to national resource security.
- While ensuring highly efficient separation of rare earth elements it also delivers multiple, other high purity, valuable by-products from the source material.

2. Domestic Supply Chain Support:

- Our efforts support the development of a robust domestic supply chain, reducing reliance on international sources and fostering economic growth within the region.

3. Actinide Removal and Management:

- In process removal & management of actinides, promotes a clean and eco-friendly extraction process that safeguards both public health and the environment.

4. Minimized Use of Energy & Hazardous Chemicals:

- The process minimizes energy use and dependence on toxic volatile organic chemicals, ensuring a safer production environment and easier residual management.

This technological milestone reaffirms our dedication to innovation, sustainability, and advancing the rare earth concentrate production industry. We are committed to furthering the application and integration of our proprietary chromatographic separation technology for the benefit of our industry and our planet.

For more information on our groundbreaking chromatographic separation technology and its role in transforming rare earth element production, please reach out to us. Join us in shaping a future where sustainability and innovation go hand in hand in enabling the US to become self-sufficient in rare earth production.

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