# 5N **...**

# **Perovskite Precursor Products**



### About 5N+

### **Enabling performance** for more than 25 years



Trusted partner for ultra-high purity specialty semiconductors with 25-year track record



Preferred critical materials supplier to solar power sector for thin-film PV applications



Major supplier with Western industrial-scale presence for a range of applications, enabling secure and transparent supply chains



Sourcing advantage through strategic global footprint and connections with upstream industrial partners

### **Trusted partner** with unique capabilities



Specialized producer of high-purity, highly stoichiometric semiconductor materials and compounds



World-class manufacturing and upstream refining capabilities with proven ability to scale production cost-effectively



Adhere to stringent internationally recognized safety, quality, energy, environment and resource management standards, including toxic materials handling

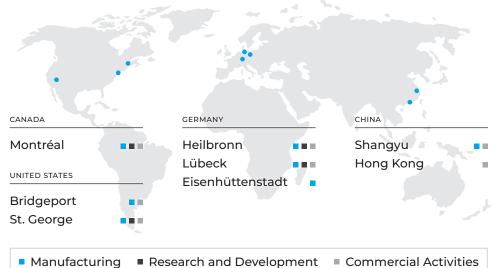


Strong R&D and technical expertise enabling continuous innovation and process improvements



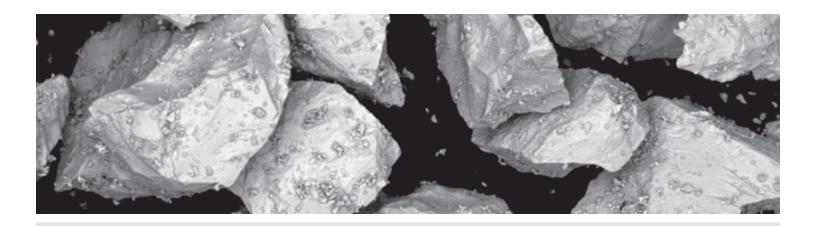
Partnership approach to product development and customization to meet customer specifications

### **Global Presence**



■ Research and Development ■ Commercial Activities

Headquartered in Montréal, Quebec, Canada, 5N+ (TSX: VNP) is a leading global producer of specialty semiconductors and performance materials with more than 800 employees and strategically located R&D, manufacturing operations and commercial centers in North America, Europe and Asia. 5N+ deploys a range of proprietary and proven technologies to develop and manufacture its products which enable various applications in several kev industries, including renewable energy, security, space, pharmaceutical, medical imaging and industrial.



## **Our Suite of Perovskite Precursors**

Stable product quality and rapid execution

Particle size and morphology tailoring capabilities

No minimum quantity requirements

1kg-10kg\*

Capacity to produce up to commercial volumes with further scaling upon client request

### Lead and Cesium Halides (Pbl<sub>2</sub>, PbBr<sub>2</sub>, PbCl<sub>2</sub>, Csl, CsCl and CsBr)



Purity	4N5+

Particle size Tailored and form factor particle size

**Packaging** (under inert gas atmosphere)

\* Other quantities and packaging options available upon request

#### **Specialized Halides**

Additional inorganic and hybrid materials under development and available on request.









#### **Contact Us**

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