

# GFS Inorganics

## BATTERY & POWER STORAGE CHEMICALS



GFS Chemicals is meeting the demanding needs of the battery and power storage industries head-on. We have been producing and selling high-quality materials to the battery and fuel cell markets for decades.

Simultaneously, we have been involved in scale-up processes involving novel or emerging battery and fuel cell materials. GFS Chemicals can readily support this market in different stages of development, ranging from experimental, R&D volumes, all the way up to multi-metric ton quantities for full scale commercial production.


We are vertically integrated in a number of key chemistries such as lithium, nickel, cerium, and silver. Our expertise in high purity acid distillation makes GFS Chemicals a proven leader in bulk manufacturing of low trace metal salts. Our specialty bulk drying equipment allows us to provide ultra-dry materials used in many fuel cell and advanced battery systems.


Some of the products we manufacture include:

- Lithium Iodide (solid electrolyte, low current applications)
- Lithium Perchlorate, Anhydrous
- Rare Earths (dopants involving Cerium, Yttrium, Lanthanum, and Ytterbium)
- Specialized Electrolyte Solutions
- Anhydrous Cadmium Compounds
- Iron and Silver Based Etchant Solutions
- Cobalt, Zinc, Manganese Compounds
- High Purity Acids
- Cerous Chloride, Anhydrous (fuel cell chemistry & catalysis)
- Lithium Triflate



### ABOUT GFS CHEMICALS

-  **Commitment to Quality**
  - Specialized chemistries with ultra-pure chemicals
  - Custom manufacturing capabilities
  - Facilities are ISO 9001:2015 certified

-  **Shipping**
  - Export to 80+ countries
  - Handle a wide range of packaging configurations
  - Navigate the complex shipping requirements of hazardous materials

-  **Service**
  - Tailored sizes, packaging and specifications
  - Responsive customer service
  - Expert technical & manufacturing personnel
  - Quick turn-around of in-stock products

**Robert Kramer**  
Technical Sales & Business Development Mgr.  
Inorganic Manufacturing Division  
rkramer@gfschemicals.com  
Direct: 380.390.8782



155 Hidden Ravines Dr.  
Powell, Ohio 43065

gfschemicals.com  
800.858.9682



# GFS Inorganics

PROCESS-PERFECT  
INORGANIC CHEMICALS

Tighter metal specifications, single batch-charge packaging, and a technical team based at our production facility are just a few of the ways in which GFS Chemicals can support your business.

Is your supply chain as strong as it could be?

ITEM #	CHEMICAL NAME
646/1905	Ammonium Nitrate
602	Barium Chloride
7/8	Barium Perchlorate
868/869	Cadmium Chloride
779/1909	Calcium Nitrate
12	Calcium Perchlorate
13 -15/768/2909/7683	Ceric Ammonium Nitrate
19/1574/1575	Ceric Nitrate
24	Ceric Sulfate
5910 - 5913	Cerium/Perchloric Acid Etchants
29/2902	Cerous Chloride
30/1571	Cerous Nitrate
901	Cupric Nitrate
666/6661	Cupriethylenediamine
922	Ferric Nitrate
39/40/3924	Ferric Perchlorate
42	Ferrous Perchlorate
44	Iodic Acid
634	Lanthanum Chloride
633	Lanthanum Nitrate
49/50/5142	Lead Perchlorate
609/2297	Lithium Carbonate
940/2595	Lithium Iodide
611	Lithium Nitrate
53/221/233	Lithium Perchlorate
54-56/589	Magnesium Perchlorate

ITEM #	CHEMICAL NAME
613	Mercuric Nitrate
60/5148	Mercuric Perchlorate
972/5316	Nickel Chloride
62/5155	Nickel Perchlorate
697	Nickel Sulfate
652/1277/2450	Oxalic Acid
66-69/2477/2478/2267/6601	Perchloric Acid
987/1922	Potassium Chlorate
554/2354	Potassium Hydrogen Phthalate
80/297/373/1929	Potassium Perchlorate
81/593	Potassium Periodate
1016/5384	Rubidium Nitrate
1190	Silver Iodide
378	Silver Nitrate
86/87	Silver Perchlorate
1029	Sodium Chlorate
658/1942/6581	Sodium Nitrate
559	Sodium Nitrite
94/659	Sodium Para Periodate
93	Sodium Meta Periodate
91/92/1950/3230	Sodium Perchlorate
807/808	Sodium Tartrate
805	Strontium Chloride/Nitrate
96/5168	Strontium Perchlorate
1216/2250/2453	Yttrium Nitrate
102	Zinc Perchlorate

The above list is a small sampling of the chemicals GFS can manufacture. To view our full range of chemicals, scan the QR code and visit our Inorganics division home page.



155 Hidden Ravines Dr.  
Powell, Ohio 43065

gfschemicals.com  
800.858.9682

