

Product Data Sheet

Cobalt Sulphate (Heptahydrate) - Battery/Industrial Grade

Description

Description	Cobalt Sulphate Heptahydrate ($\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$) is a pink-to-red crystalline cobalt salt, produced from refined cobalt feedstock. It is a critical precursor material for lithium-ion battery cathode production (NCM/NCA chemistries), alongside established uses in electroplating, catalysts, pigments and trace-mineral animal feed supplementation.
Applications	Lithium-ion battery cathode precursor (NCM/NCA chemistries) Electroplating – cobalt plating for hardness and corrosion resistance Catalysts and cobalt-based pigments (cobalt blue/violet) Animal feed trace-mineral supplement and fertiliser micronutrient
Grade	Battery/Industrial Grade, Min. 98.5% $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$
CAS No.	10026-24-1

Key Benefits

1. High purity supporting battery-precursor and electroplating-grade applications
2. Tightly controlled nickel, iron and copper impurity limits suited to battery cathode precursor use
3. Consistent cobalt content supporting predictable downstream processing
4. Established, actively traded commodity given strong demand from the EV battery supply chain

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
CoSO ₄ ·7H ₂ O Content	Titration Method	wt%	Min. 98.5
Cobalt (Co) Content	ICP/AAS Method	wt%	Min. 20.5
Nickel (Ni) (max)	ICP/AAS Method	wt%	0.10
Iron (Fe) (max)	ICP/AAS Method	wt%	0.005
Copper (Cu) (max)	ICP/AAS Method	wt%	0.002
Zinc (Zn) (max)	ICP/AAS Method	wt%	0.005
Manganese (Mn) (max)	ICP/AAS Method	wt%	0.005
Sodium (Na) (max)	ICP/AAS Method	wt%	0.02
Insoluble Matter (max)	Gravimetric Method	wt%	0.02
pH (5% Solution)	pH Meter	–	4.0 – 6.0
Appearance	Visual	–	Pink to red crystalline powder/crystals

Packaging

Packaging 25 kg HDPE Bags/Drums (with liner)
 500 kg / 1,000 kg Jumbo Bags or Drums on request
 Custom packaging available on request – subject to Dangerous Goods
 packaging requirements (see MSDS)

Storage & Handling

1. Store in a cool, dry, well-ventilated area, physically segregated from food, feed and general-access storage
2. Keep containers tightly sealed to prevent moisture ingress and dust generation

3. Handle strictly per Dangerous Goods and occupational exposure requirements – see accompanying MSDS before storage/handling decisions are finalised
4. Keep away from strong reducing agents and organic materials

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting CoSO₄·7H₂O content, cobalt content and key trace-metal impurities against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.