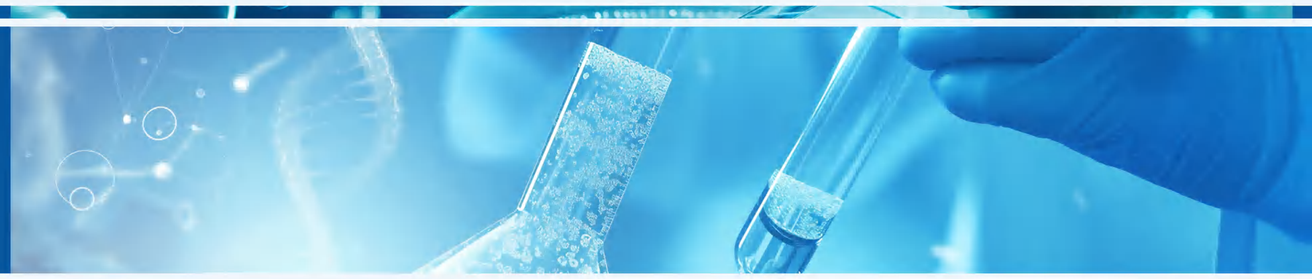
东正化工
DONGZHENG CHEMICAL

亚铬酸钠
Sodium chromate(III)、Sodium chromite





产品信息

【分子式】$CrNaO_2$（常用表示）、$Na_2Cr_2O_4$（聚合形式）

【分子量】106.984（$CrNaO_2$）、214.0（$Na_2Cr_2O_4$）

【CAS号】12314-42-0

【外　观】绿色晶体或灰绿色粉末。



Product Information

【Molecular Formula】Sodium Chromite ($CrNaO_2$) Sodium Chromite (polymeric form, $Na_2Cr_2O_4$)

【Molecular Weight】106.984（$CrNaO_2$）、214.0（$Na_2Cr_2O_4$）

【CAS Number】12314-42-0

【Appearance】Green crystals or grayish-green powder

产品性质

物理化学性质

不燃，无氧化性，常温常压下稳定，密封室温储存可保持化学稳定性。难溶于冷水，在热水中有一定溶解度。

包装

克级实验室装采用PE（100ML）瓶装，防止粉末泄漏与吸潮；公斤级工业装采用密封铝塑袋包装，20袋汇集成一个纸桶封装；大吨位装可采用开口钢桶包装，满足工业批量运输需求。（可根据客户需求定制）

存储

密封容器，置于阴凉干燥、通风良好的库房，库温不宜超过37°C；远离潮湿、火种与热源，与氧化剂、食用化学品分开存放；防止粉末吸入与接触，储存区域配备泄漏应急处理设备。

技术指标

质量指标		指 标
$CrNaO_2$ %	≥	99.00（高纯度品）
水不溶物 %	≤	0.01
Fe%	≤	0.03
Cl^- %	≤	0.10
SO_4^{2-} %	≤	0.30

Properties

Physical and Chemical Properties

Non-flammable, non-oxidizing, and stable under normal temperature and pressure.When stored in a sealed container at room temperature, it maintains chemical stability.Slightly soluble in cold water, with certain solubilityin hot water.

Packaging

Gram-scale laboratory packaging: Packed in 100 mL PE bottles to prevent powder leakage and moisture absorption. Kilogram-scale industrial packaging: Sealed aluminum-plastic composite bags, with 20 bags consolidated into one fiber drum for outer packaging.Bulk tonnage packaging: Available in open-head steel drums to meet industrial-scale transportation requirements

Storage

Store in tightly sealed containers in a cool, dry, and well-ventilated warehouse.The storage temperature should not exceed 37°C.Keep away from moisture,ignition sources, and heat. Store separately from oxidizing agents and food-grade chemicals.Avoid inhalation of dust and direct contact. The storage area should be equipped with appropriate emergency equipment for leak response.

Technical Indicators

Quality Specifications		Indicator
$CrNaO_2$ %	≥	99.00% (High Purity Grade)
Water Insoluble Matter, %	≤	0.01
Fe%	≤	0.03
Cl^- %	≤	0.10
SO_4^{2-} %	≤	0.30

应用领域



- 金属表面处理：作为氧化剂在金属表面形成保护性氧化膜，同时可作为阴极保护材料，防止金属结构电化学腐蚀。
- 陶瓷加工：作为重要陶瓷颜料，应用于各类陶瓷工艺生产。
- 基础化工合成：用于铬酸盐制备、染料生产等基础化工领域，是相关化工产品的重要原料。
- 储能：可做为钠电池材料电极
- 润滑脂：可作为航天航空高级润滑脂材料
- 抗氧化助剂：在部分药物生产中作为抗氧化剂，延缓药物的氧化降解过程。
- 科研实验：高纯度亚铬酸钠用于实验室科研、化学分析及其他铬系化合物的制备。

Application area



- Metal Surface Treatment: Acts as an oxidizing agent to form a protective oxide film on metal surfaces. It can also serve as a cathodic protection material to prevent electrochemical corrosion of metal structures.
- Ceramic Processing: Used as an important ceramic pigment in various ceramic manufacturing processes.
- Basic Chemical Synthesis: Applied in the preparation of chromates, dye production, and other fundamental chemical industries, serving as a key raw material for related chemical products.
- Energy Storage: Can be used as an electrode material for sodium-ion batteries.
- Grease Applications: Utilized as a material component in high-performance aerospace lubricating greases.
- Antioxidant Additive: Used as an antioxidant in certain pharmaceutical manufacturing processes to delay oxidative degradation of drugs.
- Scientific Research: High-purity sodium chromite is used in laboratory research, chemical analysis, and the preparation of other chromium-based compounds.

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