

# 重铬酸铵

## Ammonium Dichromate



### 产品性质

#### Product Nature

##### ● 物理化学性质

强氧化剂，溶于水及乙醇，与有机物接触、摩擦或撞击能引起燃烧或爆炸。

##### ● 包装

25KG加强型编织袋包装。（可根据客户需求定制）

##### ● 存储

贮运时应注意防潮、防热、防击、远离易燃物，不得与食品或强还原剂混存。

### 应用领域

#### Industrial Chromic Anhydride



用于钡的测定；用作催化剂、媒染剂、氧化剂及实验室制纯氮的原料，无烟焰火制造；用于凹版印刷的照相制版、配制显影液以及石印显影；用于制造陶瓷釉药、烟火；是生产纯氮和十二烷基磺酸钠的原料；用于合成香料，以椰子油为原料制十二醇、十四醇时作催化剂；在印染行业用作酸性染料和媒介染料的媒染剂；还用作塑料和橡胶的发泡剂等。

### 产品信息

#### Product Information

【分子式】 $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$

【分子量】252.07

【CAS号】7789-09-5

【外 观】橘红色单斜结晶或粉末



### Product Information

【Molecular Formula】 $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$

【Molecular Weight】252.07

【CAS Number】7789-09-5

【Appearance】Orange-red monoclinic crystals or powder.

### 技术指标

#### Technical Index

【执行标准】HG/T 5217-2017

质量指标	指 标	
	一等品	合格品
重铬酸铵(以 $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ 计)	w/ % ≥	99.00 98.00
水不溶物	w/ % ≤	0.01 0.02
氯化物(以Cl计)	w/ % ≤	0.15 0.30
硫酸盐(以 $\text{SO}_4^{2-}$ 计)	w/ % ≤	0.02 0.05
钠离子(以 $\text{Na}^+$ 计)	w/ % ≤	0.40 1.00

### Properties

#### Physical and Chemical Properties

A strong oxidizer, soluble in water and ethanol, and may cause combustion or explosion when in contact, friction, or impact with organic substances.

#### Packaging

25KG reinforced woven bag packaging.  
(Customizable according to customer needs)

#### Storage

During storage and transportation, attention should be paid to moisture prevention, heat prevention, impact prevention, and keeping away from flammable materials.  
NoStore separately from food or strong reducing agents.

### Technical Indicators

【Standard】HG/T 5217-2017

Quality Index	Index	
	First Grade	Qualified Grade
Ammonium Dichromate (as $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ ), w/% ≥	99.00	98.00
Water-insoluble matter, w/% ≤	0.01	0.02
Chlorides (as Cl), w/% ≤	0.15	0.30
Sulfates (as $\text{SO}_4^{2-}$ ), w/% ≤	0.02	0.05
Sodium ion (as $\text{Na}^+$ ), w/ % ≤	0.40	1.00

### Application area



It is used for barium quantification, as well as a catalyst, mordant and oxidizer in various industrial process. It serves as a raw material for laboratory preparation of pure nitrogen and is an essential component in smokeless pyrotechnics. In the printing industry, it finds application in photogravure plate-making, developer formulation, and lithographic development. It is applied in manufacturing ceramic glazes and fireworks, acting as a precursor for synthesizing sodium dodecyl sulfate and functions as a catalyst in the production of lauryl and myristyl alcohols from coconut oil. In textile dyeing, it serves as a mordant for acid and chrome dyes, while in polymer processing, it is employed as a foaming agent for plastics and rubber.



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