



## Coconut activated carbon application index

### 1、 High-quality coconut shell activated carbon

Coconut shell activated carbon is a high-quality activated carbon produced from coconut shell raw materials. It is a kind of broken carbon with irregular particles. It has high strength and can be regenerated many times after saturation. Its high adsorption capacity and low resistance are its outstanding characteristics. This product is widely used. It is widely used in the de-colorization, deodorization, removal of organic matter and residual chlorine in central water purifiers, drinking water, and industrial water in fixed or fluid beds.

#### Specifications and technical parameters

Name	Technical index
Meshes size(sieve)	4-8, 6-12, 10-28, 12-20, 8-30, 12-30, 20-50
Packing density(g/ml)	0.45-0.55
Strength(%)	≥95
Ashes(%)	≤5
Moisture(%)	≤10
Iodine adsorption value(mg/g)	900-1250
Methylene blue adsorption value(mg/g)	135-210
PH value	7-11 or 6.5-7.5 or 7-8.5
Specific surface area (m <sup>2</sup> /g)	950-1200
Remarks (high-standard water purification activated carbon)	Activated carbon used in water purifiers contains heavy metal requirements: arsenic ≤ 10ppb, aluminum ≤ 200 ppb, iron ≤ 200 ppb, manganese ≤ 200 ppb, lead ≤ 200 ppb



## 2. Coconut activated carbon for gold extraction

Activated carbon for gold extraction is made of high-quality coconut shells from Southeast Asia as raw materials and refined and processed through carbonization, high-temperature activation, and pre-treatment. The product has outstanding characteristics such as developed pore structure, large specific surface area, high wear resistance, fast adsorption speed, large adsorption capacity, easy desorption, and repetitive use. It is widely used in the extraction of gold by the carbon slurry method and heap leaching method. The activated carbon for gold uses a special process to perform high-strength shaping of the activated carbon particles, and almost all of the particles, such as needle-shaped, pointed, angular, and easy-to-wear parts, are removed. The particle shape is full and uniform, which greatly improves the abrasion resistance of the product. There is no need for pre-grinding after entering the factory, and it can be used directly after washing with water.

### Specifications and technical parameters

Name	Technical index
Meshes size(sieve)	6-12 or 8-16
Packing density(g/ml)	>950-1000
Strength(%)	≥99
Ashes(%)	≤3

## 3. LC type free chlorine removal special activated carbon

LC-type activated carbon for water purification, a composite activated carbon produced by a special process, with irregular particles, generally between 12-40 mesh, and can also be crushed and shaped according to user requirements. LC type free chlorine removal special activated carbon has a removal rate of 99-100% for free chlorine.



#### Specifications and technical parameters

Name	Technical index
Meshes size(sieve)	12-40
Iodine adsorption value(mg/g)	850-1000
Methylene blue adsorption value(mg/g)	135-160
Strength(%)	≥94
Moisture(%)	≤10
Ashes(%)	≤3
Packing density(g/ml)	0.4-0.5
Water extract (%)	≤4
Heavy metal (%)	≤10ppm
Semi-dechlorination value	≤100px
Ignition temperature (°C)	≥450

#### 4. Special activated carbon for RJ type solvent recovery

RJ type solvent special activated carbon, it is a kind of columnar shaped activated carbon produced by a special process using high-quality coconut shell raw materials, with a particle size of 6-8 mesh ( $\phi$ 3mm), and it can also be made into broken shape activated carbon according to user requirements. The main features of the activated carbon: fast adsorption speed, less steam consumption for desorption, and quality indicators comparable to foreign products. It is mainly used for the recovery of solvents such as gasoline, acetone, methanol, ethanol, and toluene.

#### Specifications and technical parameters



#### 5. ZH-03 granular sugar charcoal (physical method)

Select high-quality raw materials, high-performance physical activated carbon made by high-temperature activation (converter), used for de-colorization of citric acid, sugar, coking wastewater in the pharmaceutical industry. The chromaticity can be processed from 130 times to less than 8 times, the COD is processed from 300PPM to less than 50PPM, and the processing cost per ton is about 10 yuan. This kind of activated carbon is granular and can be regenerated after the adsorption is saturated. The adsorption performance is close to chemical powdered carbon.

#### Specifications and technical parameters

Name	Technical index
Meshes size(sieve)	20-50
Iodine adsorption value(mg/g)	850-1000
Strength(%)	>85-90
Moisture(%)	≤10
Ashes(%)	≤5
Specific gravity(g/l)	0.38-0.45

#### 6. Silver loaded activated carbon

Silver-loaded activated carbon is a new technology water purification product that exchanges silver ions into the pores of activated carbon and is specially fixed. It uses the powerful "van der Waals" power of activated carbon to absorb a large amount of organic matter in the activated carbon filter and sterilize it, and reduces the growth of bacteria in the activated carbon, and reduces the increasing nitrite content in the effluent of the activated carbon filter.

The silver-loaded activated carbon process does not add any acid or alkali, and the silver-loaded activated carbon contains only silver ions instead of silver oxide, which really has the effect of purifying water.



### Specifications and Technical index

Name	Technical index
Meshes size(sieve)	10-28 or 20-50
Iodine adsorption value(mg/g)	≥1000
Strength(%)	≥95
Moisture(%)	≤5
Ashes(%)	≤3
Silver loading value(‰)	1-10

### 7. Special activated carbon for special monosodium glutamate decolorization

This product uses high-quality coconut shells, apricot shells, walnut shells, and other hard nut shells as raw materials, refined by physical methods. The product is in the form of black indeterminate particles, which has the advantages of large specific surface area, developed pore structure, strong adsorption capacity, fast decolorization speed, and easy regeneration.

### Specifications and technical parameters

Name	Technical index
Meshes size(sieve)	20-50
Iodine adsorption value(mg/g)	>1000-1200
Methylene blue adsorption value (mg/g)	180-225
Strength (%)	≥85
Moisture (%)	≤10
Specific surface area (m <sup>2</sup> /g)	>1000-1250



PH value	8-11
Filling density (cm <sup>3</sup> /g)	0.35-0.45

#### **8. ZH-05 type vinylon catalyst carrier activated carbon**

**ZH-05 type vinylon catalyst carrier activated carbon is made by using high-quality coconut shell carbon as raw material, using advanced equipment, through carbonization, activation, selection, crushing, screening, pickling, drying, and other processes. The product has an extremely developed microporous structure, large specific surface area, strong adsorption capacity, high mechanical strength, uniform and reasonable particle size distribution, and stable product quality.**

**Coconut shell activated carbon is refined with coconut shell as raw material. The shape is amorphous particles. It has the characteristics of high mechanical strength, developed pore structure, large specific surface area, fast adsorption speed, high adsorption capacity, easy regeneration, and durability. Mainly used for food, beverage, medicinal activated carbon, alcohol, air purification activated carbon and high-purity drinking water deodorization, removal of heavy metals in water, dechlorination, and liquid decolorization. And can be widely used in solvent recovery and gas separation in the chemical industry.**

**Coconut shell activated carbon has a long service life and a complete range, including activated carbon for gold extraction, activated carbon for water treatment, monosodium glutamate refined carbon, special carbon for petrochemical desulfurization, vinylon catalyst carrier activated carbon, ethylene desalted water carbon, cigarette filter carbon, etc. Used in food, medical, mining, metallurgy, petrochemical, steelmaking, tobacco, fine chemical, and other industries.**