GAIA CARBON PTE LTD

Date: 02 Jan 2024

Introduction

Gaia Carbon produces premium-quality activated carbon via self-designed unique multi-point steam activation to suit a diverse range of client's needs with annual capacity of 5000MT.



Head Quarter : Singapore | Plant : Malaysia & Indonesia

Applications

3 major applications:

- Liquid Phase
- Gas Phase
- Gold Recovery

Liquid Phase

Drinking Water	Waste Water Treatment	Industrial Process Purification
Disinfection	Removal of VOCs and other organic compound	Agricultural
Mercury removal	Removal of biological as and chemical oxygen	Mining
Heavy metal removal	Removal of trace organics	Electroplating
Adsorption of Volatile organic compounds (VOCs)		Dry cleaning
		Food and beverage
		Purification in steam
		Mercury removal from hydrocarbons
		Precious metal recovery and trace removal
		Purification of glycols, organic compounds, amines

Gas Phase

Indoor Air	Industrial Process Gas
Air filters for airborne dust and allergens	VOCs removal from industrial air emission
Volatile organic compounds (VOCs) adsorption	Respirator masks
Deodorization	Mercury, sulphur and other organics removal from flue gas treatment plants
	Removal of hydrogen sulphide, ammonia, VOCs etc removal from the sewage plants and purification of carbon dioxide gas in beverage industry
	Formaldehyde removal from chemical processing plants including paints

Gold Recovery

GaiaGold is widely used in gold recovery applications. Steam activated carbon has large pore volume that makes it highly suitable for recovery of gold in Carbon in leach (CIL), Carbon in Pulp (CIP) and Carbon in Column (CIC). These product offers high rates of gold loading and elution, low platelet contents and consistent in circuit performance. Its superior hardness and attribution resistant ensure minimum breakdown of carbon in the circuit to avoid the loss of gold and operation delays

Benefits

- Maximum gold loading
- Rapid adsorption kinetics
- Consistent Performance
- Strictly Controlled Size Distribution
- Excellent attribution resistant
- Low platelet Concentration

GaiaGold Specification

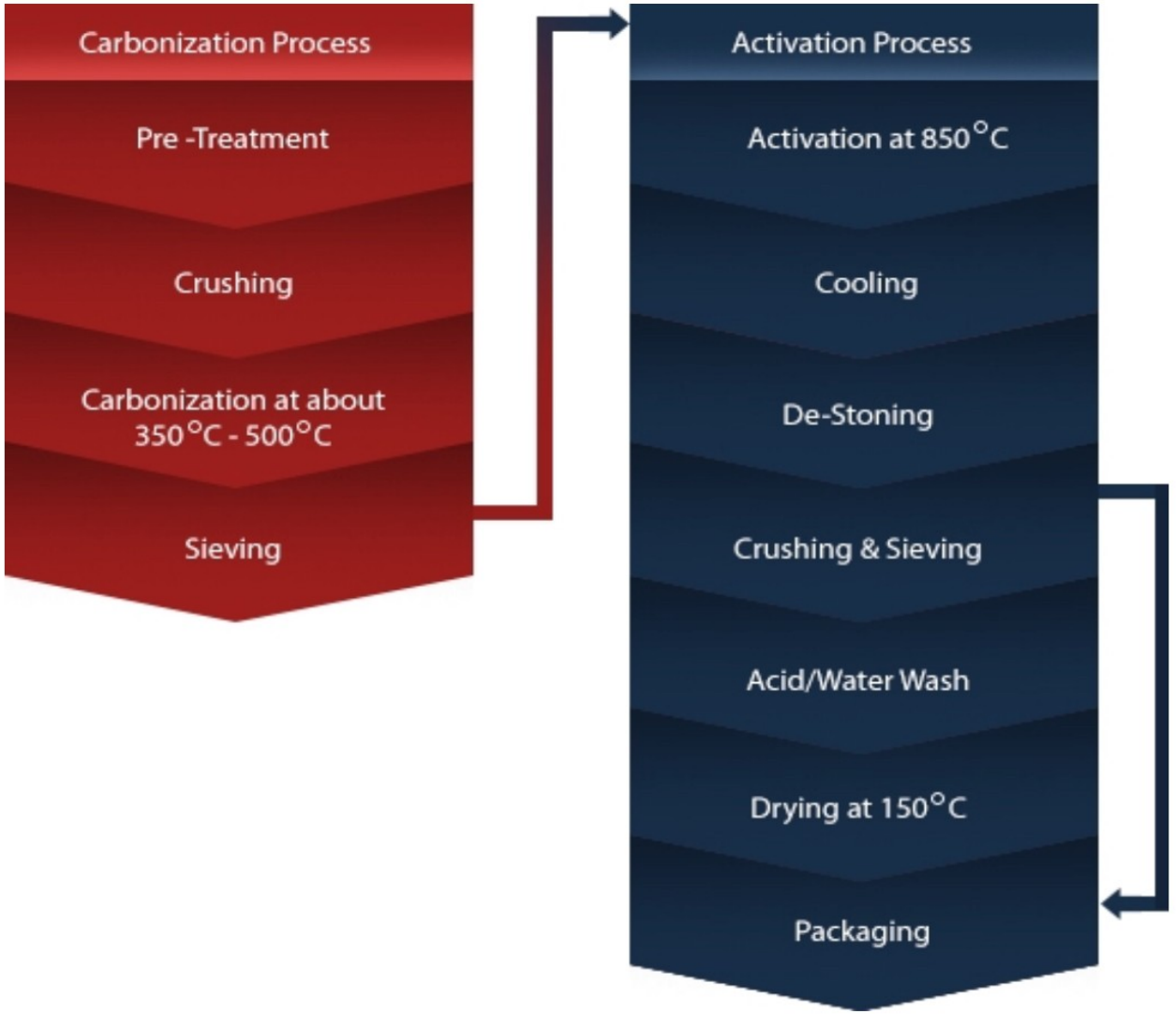
Analysis	GaiaGold A260	GaiaGold A280
CTC Activity	50% Min.	55% Min.
Ash Content	3% Max.	3% Max.
Moisture, as packed	5% Max.	5% Max.
Ball Pen Hardness	99% Min.	99% Min.
Apparent Density	470-510 kg/m3	460-500 kg/m3
Attribution (A.A.R.L)	2% Max.	2% Max.
Platelet (A.A.R.L)	7% Max.	7% Max.
Mesh	6×12 or 6×16	6 X 12 or 6×16

Packaging :

550 kg Woven bag

25 kg PE bag

Manufacturing Process



Rotary Kilns





Key Export Countries

- Japan
- Korea
- China
- Vietnam
- Indonesia
- Malaysia
- Myanmar
- Singapore
- Taiwan
- Bangladesh
- USA
- Australia

Customers

Application	Customers
Liquid Phase	• Taiwan semiconductor(TSMC) • Formosa plastic • Veolia water • Ocean Mineral water • Dr. Who Mineral water • Kurita • Petronas • Taiwan Sugar Corporation • etc
Gas	• Petronas • Osaka Gas Chemical • Perco Plastics • AAF International • Camfil Group • etc
Gold Recovery	Malaysia : CMNM mining group Myanmar: National Prosperity Company Australia : Sell via agent

Certifications

- NSF
- Halal
- EN12915





THANK YOU!