



# ACTIVATED CARBON BRAND OF TURKEY

GRANULAR • CYLINDRICAL • POWDERED





# About Us

## Nano Bilim Kimya

We are one of the leading producers and distributors of activated carbon in the world. We have a wide supply network along with our quality products, competitive prices all around world. Our end-to-end approach ensures to meet the highest standards from production to distribution stage.

Our intense focus on activated carbon makes different from other producers to succeed. Some services we widely provide are to produce coconut, coal and wood-based activated carbon made, to sell and distribute worldwide, to regenerate waste media, services of tanker, site services, test and technical consultancy.



# Activated Carbon Production

## ★ Nano Bilim Kimya

We use the hardest and highest quality coconut shells, olive seeds and walnut shells in production of activated carbon. We produce from first quality raw materials with high value of iodine by choosing specially. Purity, hardness and quality of raw material are so crucial for us.





# Raw Materials of Activated Carbon



**Walnut  
Shell**



**Coconut  
Shell**



**Olive  
Seed**



**Wood**



# Our Products







Areas of Usage

- ✔ Gas and Air Filters
- ✔ Respirator Industry
- ✔ Removal of Odor for waste water
- ✔ Solvent Recycling
- ✔ Automotive Industry
- ✔ Petroleum Refineries

# Pellet Activated Carbon

Pelletized Activated or Cylindrical Carbon is widely produced as coconut, coal or wood-based. Its granule size is 0,9 mm to 8 mm and the product that has granule size of 4 mm is commonly used. CTC index is the most important parameter that affects the quality. As CTC index increases, product quality is good.

ITEM	PELLETIZED ACTIVATED CARBON
Size	0.9mm / 2mm / 3mm / 4mm / 6mm / 8mm
Iodine	800 / 900 / 1000
CTC	40 / 50 / 60
Moisture	3%-5%
Ash	8%-%12
Hardness	92%-93%



# Granular Activated Carbon

Granular Activated Carbon is produced as coconut, coal or wood-based. Granule size is so important for GAC, which has bigger granule size than powdered activated carbon. While 12x40 mesh GAC is usually used for applications of decolorization, 8x30 mesh GAC is usually used for applications of water treatment. Iodine index is the most important parameter that affects the quality. As Iodine index increases, product quality is good.

ITEM	GRANULAR ACTIVATED CARBON
Size	8*30 / 12*40 / 20*40 Mesh / Customized
Iodine	800 / 900 / 1000
BET	900 / 1000 / 1100
Moisture	5% (Max.)
Ash	5% (Max.)
Hardness	95% (Max.)



## Areas of Usage

- ✔ Waste water treatment
- ✔ Industrial water treatment
- ✔ Potable water treatment
- ✔ Swimming pool and aquarium
- ✔ Water filter
- ✔ Power plant boiler water treatment
- ✔ Food and beverage Industry
- ✔ Sugar and clothing color removal





### Areas of Usage

- ✔ Water treatment
- ✔ Urban waste water treatment
- ✔ Electronic Factory water treatment
- ✔ Food and beverage Industry
- ✔ Pharmaceutical Industry
- ✔ Odor Removal

# Powdered Activated Carbon

Powdered Activated Carbon has highly tiny granule size and its granule size is 80 to 325. Also, it is widely produced as coconut, coal or wood-based. Its surface area is wider than GAC and its diffusion velocity is lower than GAC. PAC is added to solution, mixed and separated with filtration that is quite easy to apply.

ITEM	POWDERED ACTIVATED CARBON
Size	80 / 150 / 200 / 300 / 325 Mesh
Caramel Decolorization Capacity	110-130%
Cmethylene Blue Adsorption Value	>225
Iodine	1000 g/mg
PH	2-3 or adjustable
Moisture	10%
Ash	6% (Max.)





# Packing





**25 KG**

25 kg. Special Package With  
Covered Aluminium PP  
Material



**100 KG**

100 kg Special Production  
Package With Tin



**100 KG**

100 kg Special Production  
Package With Plastic Can



**500/1000 KG**

500 / 1000 kg Big Gunny Bag





# Storage

Products are conserved in our dry, cool and unsunned stores.



# Labelling

It shows production name, batch number, net weight, gross weight and name of manufacturer.



## Custom Label

It can be labelled properly according to name, address and information of customer.



## Custom Package

It can be designed and produced packages specific to customer.





# Transportation

Products are filled, carried and unloaded by private vehicles in a moistureless way







# R&D



Integrated R&D Center



Experienced team to develop a solution



Production facility approved by state



Production ability and equipment in special dimensions



Custom production specific to raw material



# Our Certifications

## TS EN ISO 9001:2015

**UKS** UKS ULUSLARARASI  
KALİTE SİSTEMLERİ VE  
BELGELENDİRME  
LTD. ŞTİ.

*Bu Belge ile*

**Nano Bilim Kimya Teknolojileri Üretim San. Tic. Ltd. Şti.**

Merkez: Şerifali Mh. Miras Sk. No:53 İç Kapı No:4  
Ümraniye / İSTANBUL  
Şube: Zeytinova Mh. Zeytin Diyarı Küme Evleri No:73  
Akhisar / MANİSA  
TÜRKİYE  
Firmasının

**TS EN ISO 9001:2015**

*şartlarına uygun bir Kalite Yönetim Sistemine  
aşağıda belirtilen kapsam dahilinde sahip olduğunu onaylar*

**Aktif Karbon Üretimi Ve Satışı**

Kategori/Alt Kategori :—  
Belge No :MSQ-0305  
Belge İlk Yayın Tarihi :11 Ağustos 2021  
Karar Tarihi :11 Ağustos 2021  
Belge Yayın Tarihi :11 Ağustos 2021  
Geçerlilik Tarihi :10 Ağustos 2022

Bu belge, firmamız UKS'nin Belgelendirme Kurallarına uyması ve  
yolda en az 1 kez yapılacak gözlem denetimlerinde başarılı olması halinde  
ilk belgelendirme kararına veya yeniden belgelendirme kararına karar tarihinden itibaren 3 yıl süreyle geçerlidir.  
PR.73/Yayın Tarihi:01.05.2019/Rev. Tarihi:14.03.2019/Rev. No:04

**CAS**  
ACCREDITED  
CAS-MS-0011

**Genel Müdür**

**UKS**

UKS Uluslararası Kalite Sistemleri Ve Belgelendirme  
Atakent Mah. Dicle Cad. No:35 Ümraniye / İSTANBUL  
Telefon: +90 216 330 45 77 Pbx Faks: +90 216 330 45 77  
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in geçerlilik durumu http://www.uksbelgelendirme.com.tr adresinden kontrol edilebilir.

## TS EN ISO 14001:2015

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Kategori/Alt Kategori :—  
Belge No :MSE-0138  
Belge İlk Yayın Tarihi :11 Ağustos 2021  
Karar Tarihi :11 Ağustos 2021  
Belge Yayın Tarihi :11 Ağustos 2021  
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## TS EN ISO 45001:2018

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Akhisar / MANİSA  
TÜRKİYE  
Firmasının

**TS ISO 45001:2018**

*şartlarına uygun bir İş Sağlığı ve İş Güvenliği Yönetim Sistemine  
aşağıda belirtilen kapsam dahilinde sahip olduğunu onaylar*

**Aktif Karbon Üretimi Ve Satışı**

Kategori/Alt Kategori :—  
Belge No :OHS-0103  
Belge İlk Yayın Tarihi :11 Ağustos 2021  
Karar Tarihi :11 Ağustos 2021  
Belge Yayın Tarihi :11 Ağustos 2021  
Geçerlilik Tarihi :10 Ağustos 2022

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## CARBOL Carbon Media Analysis

**Date** 09 FEB 2022  
**Company Name** CARBOL  
 CARBON  
**Company Contact** Ozkan Aksoy  
 General  
 Manager

### Background

Research Laboratory Services (RLS) received 1 sample of carbon media from Carbol Carbon (Waybill #10 7379 8250- #9318955052). Samples receipt details are given in Table 1.

Sample ID	RLS ID	Quantity Received	Date Received
Granular AC	CARBOL	2 jar	17/01/2022-04/02/2022

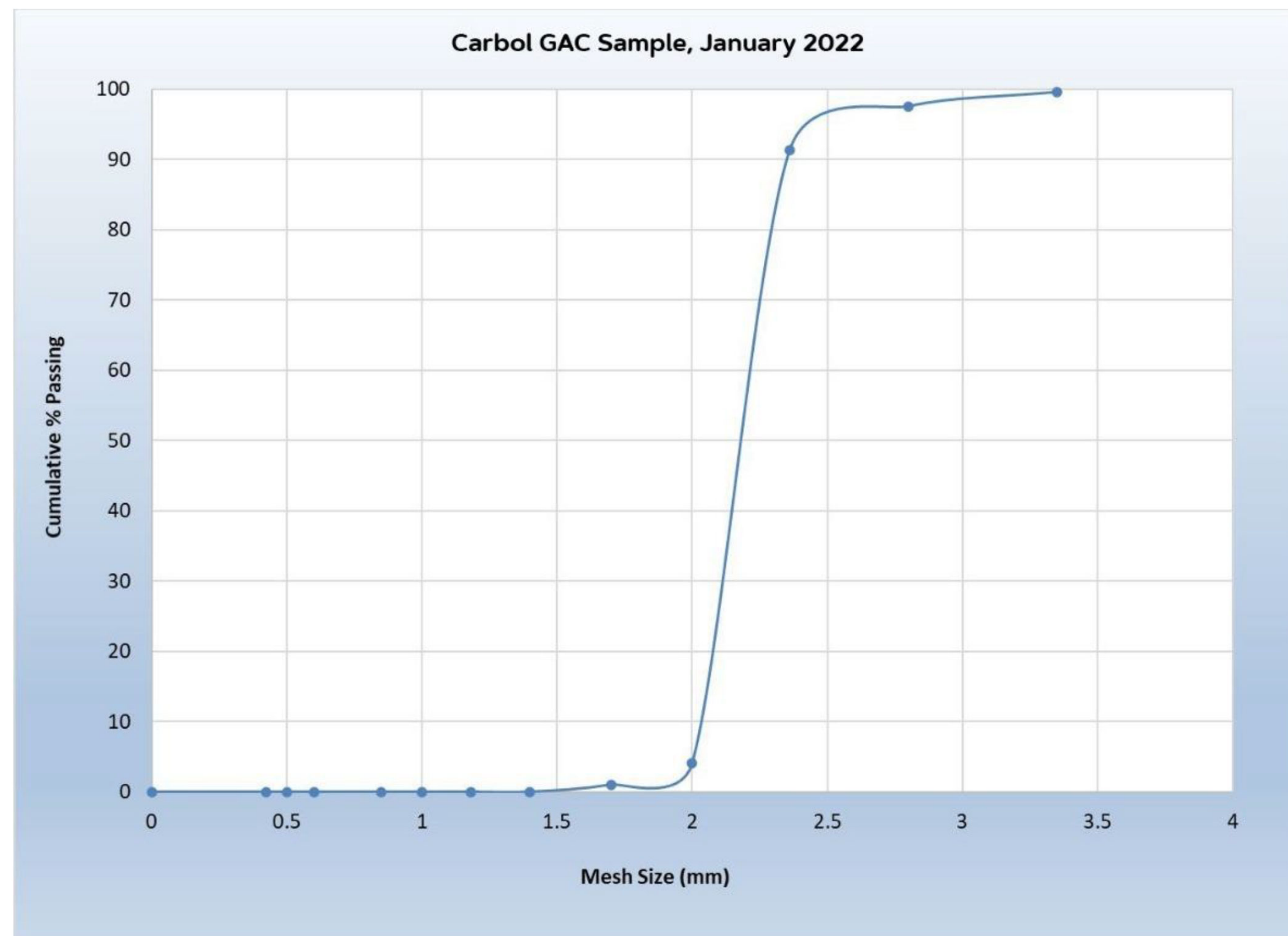
**Table 1 – Samples received from Carbol**

### Methods and results

Results are given in Table 2 and Figure 1.

Sample Description	Method Ref	Result
Iodine Number	ASTM D4607	919
Apparent Density (GAC) (g/mL)	ASTM D2854	0.43
Effective Size (mm)	ASTM D2862	2.04
Uniformity Coefficient	ASTM D2862	1.08
Ash Content (%)	ASTM D2866	1.7
pH change of solution due to carbon	ASTM D6851	9.6
pH of carbon	ASTM D3838	8.8
Ball Pan Hardness (Ro-Tap) (%)	ASTM D3802	93.2
Moisture Content (%)	ASTM D2867	<0.1

**Table 2 – Carbon media analysis result**



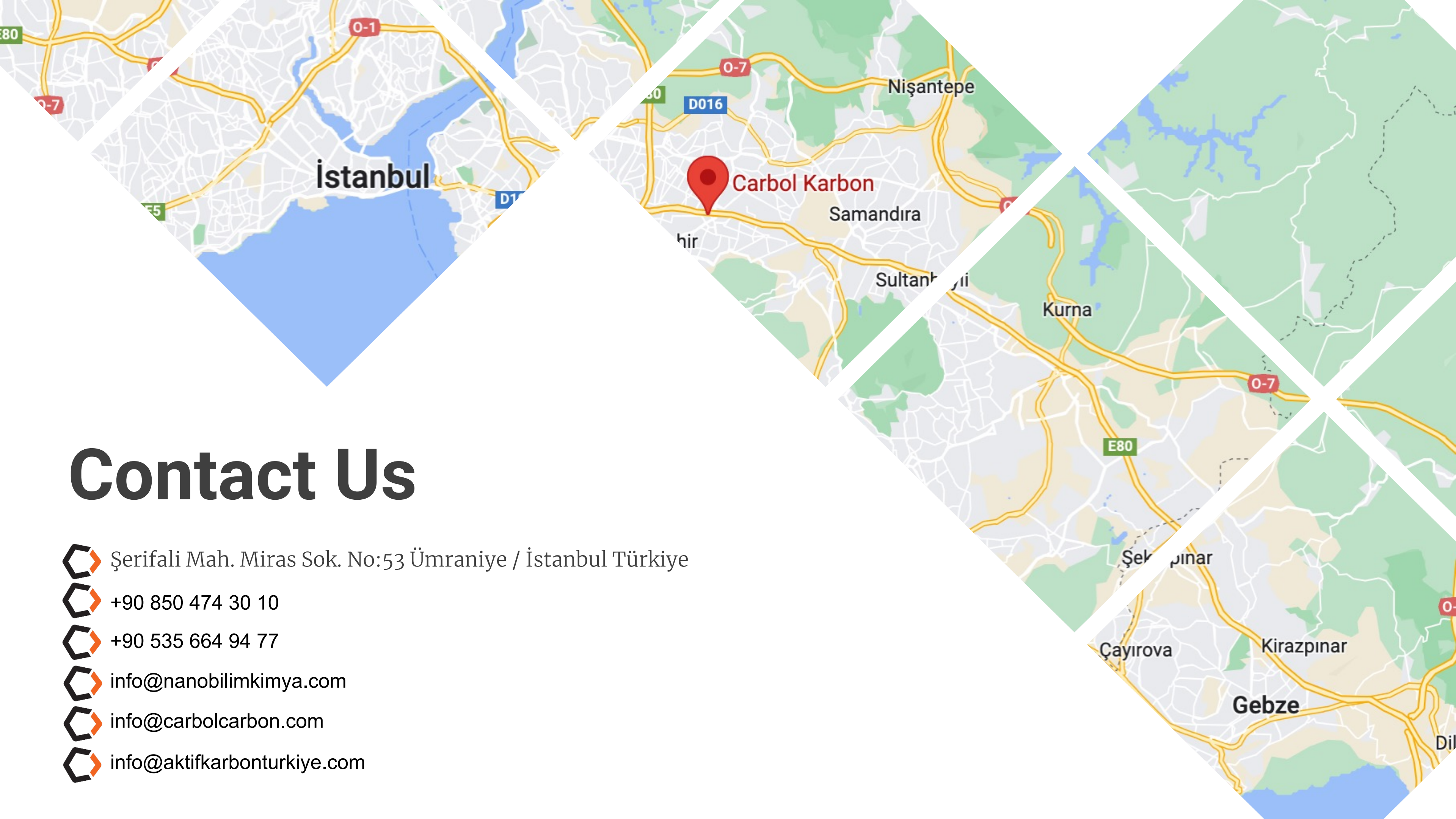




Carbol Carbon and AKT  
Activated Carbon Turkey is a  
patented and official brand  
of Nano Bilim Kimya







# Contact Us

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