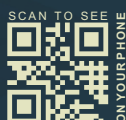


Fullerenes

C 6 0



CE ISO 9001:2015
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ISO: 13485:2016/20ZICE4588M
CE: 20ZICE4589C



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Carbon has many allotropes like diamond, graphite, etc. Third fullerene. Any molecule made of only carbon atoms is fullerene. These can be of any shape like ellipsoid, sphere or tube. Fullerenes having spherical geometry are called buckyballs. Cylindrical fullerenes are given the name nanotubes. Graphite has layered structure in which hexagonal rings are linked to each other. Fullerene structure is like graphite but there may also be pentagonal rings in fullerene structure. Fullerenes are fourth allotropic form of carbon. In comparison with graphite and diamond with extended solid state structures, fullerenes are spherical molecules which have solubility in various organic solvents. This property can be used for different chemical manipulation. A fullerene is a carbon cage structure having fused ring system which consists of pentagons and hexagons. Fullerene molecule can be used as an antioxidant because it can easily react with radicals due to the high affinity of the electron. At the same time, Fullerene is used as an anti-aging and anti-damage agent in the cosmetic sector. Fullerenes are also used as antiviral agents. Fullerenes are also impervious as organic photovoltaic (OPV), these are powerful antioxidants, reacting readily and at a high rate with free radicals which are often the cause of cell damage or death. Other uses of C 60 like catalysts, in water purification and biohazard protection, portable power, vehicles and medical.



Quick facts

Product : Fullerenes C60

Stock No : NS6130-12-000293

CAS : 9685-96-8

Color : Black

Form : Powder

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Additional Powder Characteristics

Stock No.	Purity	APS
NS6130-12-000293	>99.5%	

Specification Technical

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
C60	720.64g/mol	1.68g/cm ³	>280 °C	526.85 °C

Chemical Composition

Product	Weight Percent (nominal)	
	C60	Other Metal
Fullerenes C60	>99.5%	0.5%

Applications



- ✓ As organic photovoltaics (OPV)
- ✓ As antioxidants and biopharmaceuticals
- ✓ As polymer additives
- ✓ As catalysts
- ✓ As water purification and bio-hazard protection catalysts
- ✓ In portable power devices

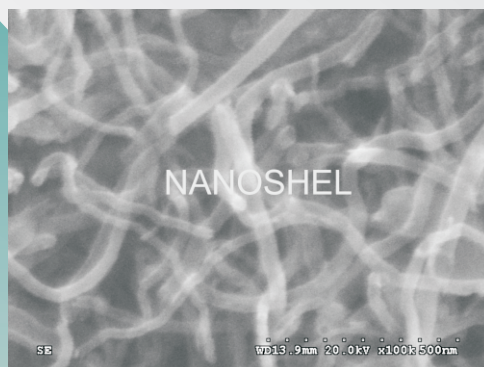


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Ordering Information and Stock Availability

- ✓ Product: FullerenesC60
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 10Gms, 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders



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Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

Download MSDS/SDS NS6130-12-000293

are available from the Nanoshel Website

at <https://www.nanoshel.com/product/c60-fullerene>

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