



SADAF CO.  
[www.sadaf-cb.com](http://www.sadaf-cb.com)

**Knowledge Based Company**





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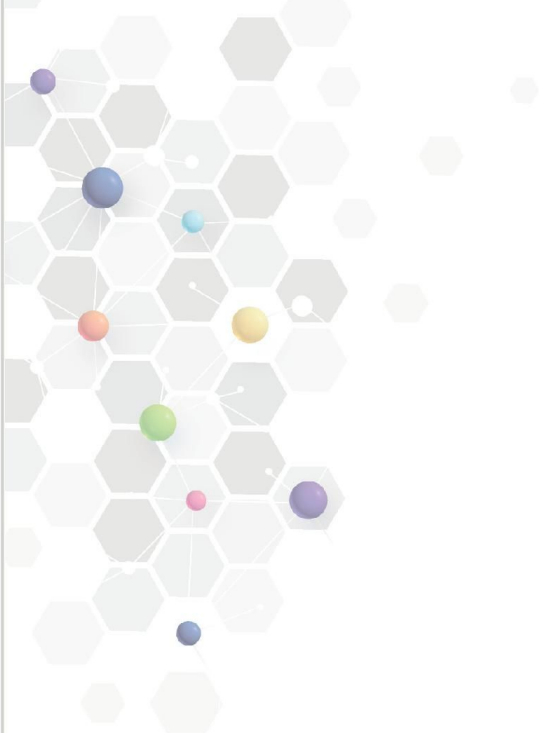




## ABOUT US:

**Sanati Doodeh Fam** Company was put into operation at the end of 2011 as the fourth producer of carbon black in Iran, in order to produce annually 60,000 MT in two major groups of hard and soft grades.

**Sadaf Co.**, relying on the advantages of its modern production technology, management measures and trained professional personnel, has succeeded to develop new required products of domestic market and also export its products to several international markets.









## About Carbon Black:

Carbon Black [C.A.S.NO. 1333-86-4] is virtually pure elemental carbon in the form of colloidal particles that are produced by incomplete combustion or thermal decomposition of gaseous or liquid hydrocarbons under controlled conditions. Its physical appearance is that of a black, finely divided pellet or powder. Its use in tires, rubber and plastic products, printing inks and coatings is related to properties of specific surface area, particle size and structure, conductivity and color. Carbon black is also in the top 50 industrial chemicals manufactured worldwide based on annual tonnage.







## Hard Grades:

(N-220, N-234, N-326, N-330, N-339, N-375, N-347)

- 1-Gives high wear-resistance, high resistance to rupture, tear resistance to rubber, high dynamic hardness and elastic
  - 2-rebound to rubber, high durability, and low hysteresis
- Widely used for producing high quality protecting rubbers and protecting stocks, transporter and conveyor belts, breaker rubber, technical seals, cable covers. It is also used for producing high quality rubber molded articles working in hard conditions

## Soft Grades:

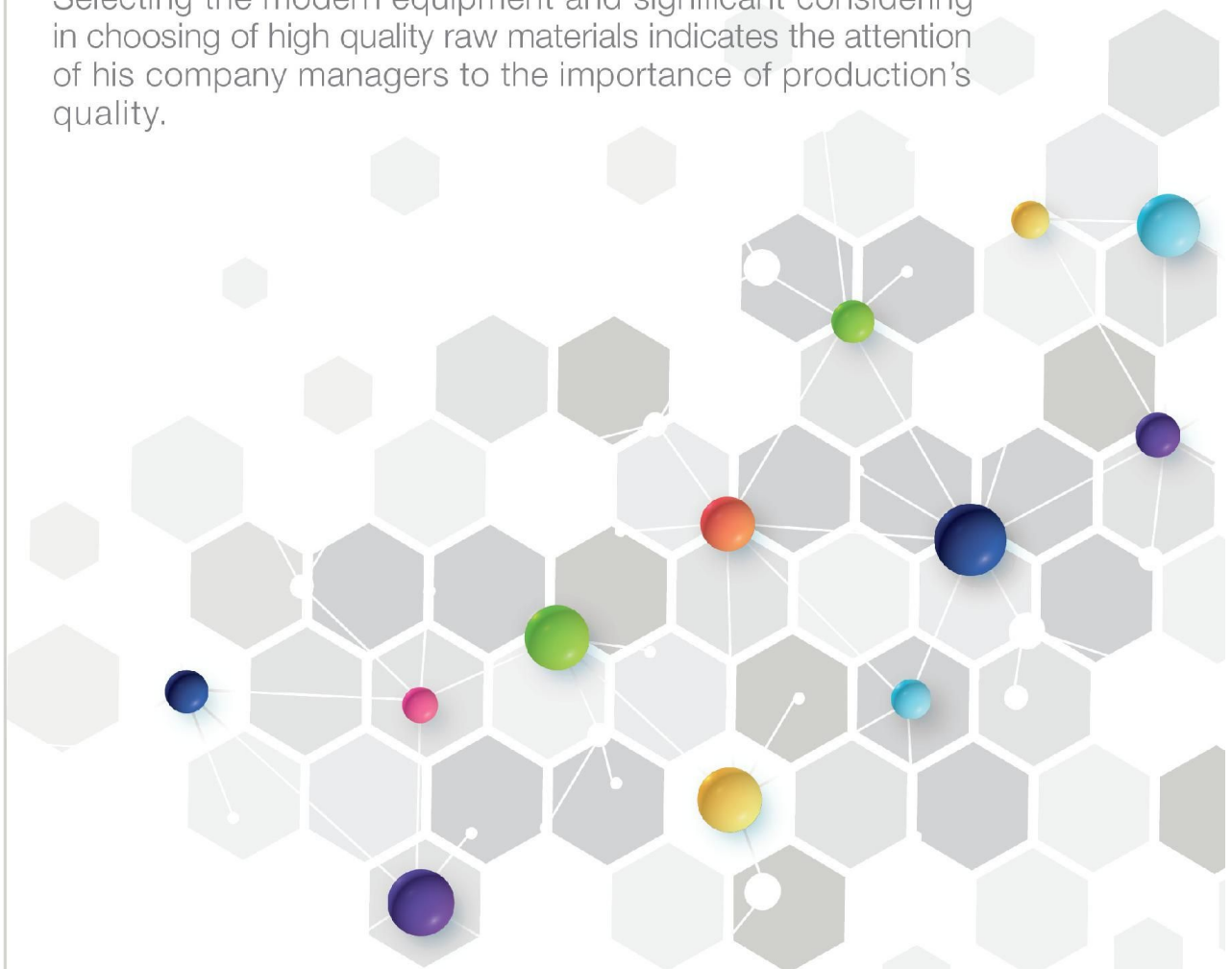
(N-550, N-660, N-772, N-774)

- 1-Gives high elasticity to rubber, middle hardness
- 2-Has high ability for filling and high profiling properties
- 3-Widely used for producing tires, tubes, sleeves, profiling articles, technical seals, molded articles, roof coverings, framed and breaker rubbers, cable and footwear

## Quality Control:

Quality of products is the most important and effective matters in customer satisfaction that always has been addressed by the managers of SADAF carbon black Co.

Selecting the modern equipment and significant considering in choosing of high quality raw materials indicates the attention of his company managers to the importance of production's quality.





## Packaging

Packaging in double layer Kraft Paper-PE envelopes (20-25 Kg)

Small Bags								
Grade	Bag Weight (kg)	Pallet Weight (kg)	Pallets Per 20 FCL	Volume Per20 FCL(kg)	Pallets Per 40 FCL	Volume Per40 FCL(kg)	Pallets Per Full Truck	Volume Per Full Truck(kg)
N220	20	1,100	8	8,800	16	17,600	18	19,800
N234	20	1,100	8	8,800	16	17,600	18	19,800
N326	25	1,375	8	11,000	16	22,000	16	22,000
N330	22	1,210	8	9,680	16	19,360	18	21,780
N339	21	1,155	8	9,240	16	18,480	18	20,790
N375	21	1,155	8	9,240	16	18,480	18	20,790
N550	21	1,155	8	9,240	16	18,480	18	20,790
N660	25	1,375	8	11,000	16	22,000	16	22,000
N772	25	1,375	8	11,000	16	22,000	16	22,000

Bulk jumbo packing-Double valve, PP-PE (1,100 Kg)

Jumbo Bags								
Grade	Bag Weight (kg)	Pallet Weight (kg)	Pallets Per 20 FCL	Volume Per20 FCL(kg)	Pallets Per 40 FCL	Volume Per40 FCL(kg)	Pallets Per Full Truck	Volume Per Full Truck(kg)
N220	1,100	1,100	10	11,000	20	22,000	22	24,200
N234	1,100	1,100	10	11,000	20	22,000	22	24,200
N326	1,100	1,100	10	11,000	20	22,000	22	24,200
N330	1,100	1,100	10	11,000	20	22,000	22	24,200
N339	1,100	1,100	10	11,000	20	22,000	22	24,200
N375	1,100	1,100	10	11,000	20	22,000	22	24,200
N550	1,100	1,100	10	11,000	20	22,000	22	24,200
N660	1,100	1,100	10	11,000	20	22,000	22	24,200
N772	1,100	1,100	10	11,000	20	22,000	22	24,200

## Our services to customers:

- On time delivery
- Provide technical advisor to customers' requirements
- Continuous monitoring of customer satisfaction
- Dispatching Experts to follow up on technical issues
- Providing specialized training in the use of carbon black in rubber

**SADAF Co.**, by providing high quality products and appropriate services is proud to allocate considerable share of non-oil export in Iran and export its products to several countries such as **Pakistan, India, Bangladesh, Indonesia, United Arab Emirates, Vietnam, Sri Lanka, Azerbaijan, Turkey, Philippine, Malaysia, Poland, Thailand, China, Africa, Taiwan, Tunisia, Morocco, Spain, Kenya & Nigeria** continuously.



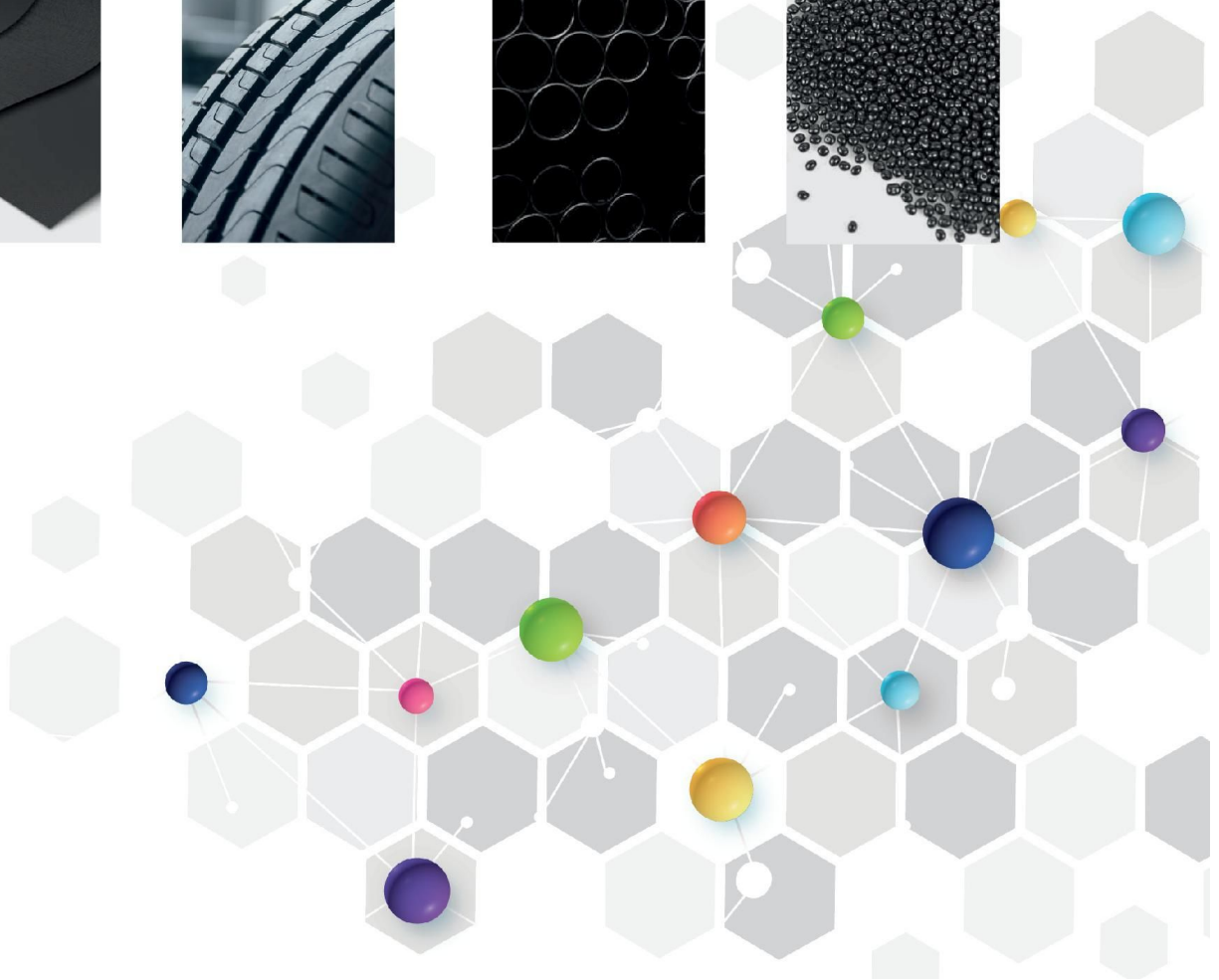
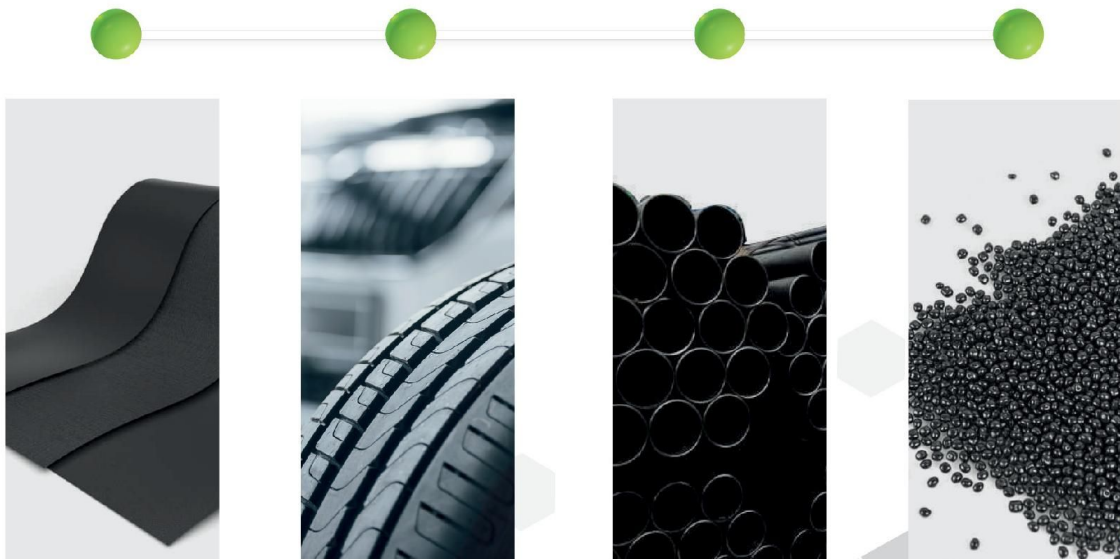




## The uses of carbon black:

- 1- Reinforcing filler for rubber products
  - tires: inner liners, carcasses, sidewalls and treads
  - Molded and extruded industrial rubber products: belts, hoses, gaskets, diaphragms, vibration isolation devices, bushings, air springs, chassis bumpers, multiple types of pads, boots, wiper blades, fascia, conveyor wheels, and grommets
- 2- UV Protection
  - Shields from UV rays and prevents plastic aging
  - Used for conductive packaging, moldings, pipes and semi-conductive cable compounds
- 3- Pigment for printing inks and paints
  - Color matching of plastic products and pigmentation for a number of coating applications including automotive (primer basecoats and clearcoats), marine, aerospace, decorative, wood, and industrial coatings
- 4- Electrical conductivity
  - Insulating polymers such as plastics conductive. Applications include electronic packaging, security applications, and automotive parts





## Products Specification

No.	Quality Specification	ASTM	N-220	N-234	N-326	N-330	N-339	N-375	N-550	N-660	N-772
1	Iodine Adsorption Number,(g/kg)	D1510	121 ± 5	120 ± 5	82 ± 5	82 ± 5	90 ± 5	90 ± 5	43 ± 5	36 ± 5	30 ± 5
2	Oil Absorption Number (OAN),(ml/100g)	D2414	114 ± 5	125 ± 5	72 ± 5	102 ± 5	120 ± 5	114 ± 5	121 ± 5	90 ± 5	65 ± 5
3	Oil Absorption Number of Compressed Sample (COAN),(ml/100g)	D3493	98 ± 5	102 ± 5	68 ± 5	88 ± 5	99 ± 5	96 ± 5	85 ± 5	74 ± 5	59 ± 5
4	Pour Density,(kg/m <sup>3</sup> )	D1513	355 ± 20	320 ± 20	455 ± 20	380 ± 20	345 ± 20	345 ± 20	360 ± 20	440 ± 20	520 ± 20
5	Heating Loss,(max%)	D1509	1	1	1	1	1	1	1	1	1
6	Toluene Solvent Discoloration,(min%)	D1618	85	85	85	85	85	85	75	75	60
7	PH	D1512	7.5 - 9	7.5 - 9	7.5 - 9	7.5 - 9	7.5 - 9	7.5 - 9	7.5 - 9	7.5 - 9	7.5 - 9
8	Fines Content-QBag,(max%)	D1508	7	7	7	7	7	7	7	7	7
9	Fines Content-Bag,(max%)	D1508	10	10	10	10	10	10	10	10	10
10	Individual Pellet Hardness-Max 20,(CN)	D3313	50	50	50	50	50	50	50	50	50
11	Individual Pellet Hardness-Ave 20,(CN)	D3313	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40
12	Sieve Residue-No 35 US Std max,(ppm)	D1514	10	10	10	10	10	10	10	10	10
13	Sieve Residue-No 325 US Std max,(ppm)	D1514	1000	1000	1000	1000	1000	1000	1000	1000	1000
14	Ash Content,(max%)	D1506	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	Sulfur Content,(max%)	D1619	2	2	2	2	2	2	2	2	2
16	NSA,(m <sup>2</sup> /g)	D6556	114 ± 5	119 ± 5	78 ± 5	78 ± 5	91 ± 5	93 ± 5	40 ± 5	35 ± 5	32 ± 5
17	STSA,(m <sup>2</sup> /g)	D6556	106 ± 5	112 ± 5	76 ± 5	75 ± 5	88 ± 5	91 ± 5	39 ± 5	34 ± 5	30 ± 5
18	Tint Strength (%)	D3256	116 ± 5	123 ± 5	111 ± 5	104 ± 5	111 ± 5	114 ± 5	.....	.....	.....
19	Particle size (nm)	.....	20 - 25	20 - 25	26 - 30	26 - 30	26 - 30	26 - 30	40 - 48	49 - 60	61 - 100







Our quality management system conforms to ISO 9001:2015 standards.



Our company has implemented Environmental management system based on requirements of International standard ISO 14001:2015.



Our occupational health and safety (OH&S) management system conforms to ISO 45001:2018.



Our laboratory has the ISIRI-ISO/IEC 17025:2017 standard and is qualified to perform testing services based on the validation scope of global standards.



Manufacturer  
of Various Carbon Black  
Grades in Iran

Head Office: No.17 ,17th Alley, South Gandhi,Tehran, Iran  
Tel:+98 21 88871265-7 & +98 21 88640373-5 Fax:+98 21 88662190  
Factory: No.2, Industrial Zone, Dezful, Khuzestan, Iran  
Tel:+98 614 2264130-40  
[www.sadaf-cb.com](http://www.sadaf-cb.com)  
[Info@sadaf-cb.com](mailto:Info@sadaf-cb.com)

