

## Sesame Seed



- Uses: Sesame seed is widely used in bakery, confectionery and in production of tahini and halwa.
- Producers: Asian and African countries are the major producers and exporters of sesame seed.
- Humera type: Ethiopia, one of the biggest exporter from African region, exports mainly Humera sesame seed.
- Importers: China, Japan, Turkey, South Korea, U.S., Europe and Middle east countries are major buyers.
- Futures: There is no futures platform for this commodity in India.

There are mainly three types of sesame seeds produced in India - white, black and brown. Natural white sesame seed is the most traded and used for crushing and direct consumption. It has its various uses in bakery, confectionery, sesame products like tahini and many other food items. Indian sub-continent mainly crushes it to produce unrefined and filtered oil while East and Southeast Asian countries consume toasted oil. In Middle East it is mainly used in the production of tahini (halwa). Brown seeds are also used for oil extraction purpose whereas black sesame seeds are for medicinal purpose as they are known to have many health benefits.

When the seeds are crushed to produce oil, its by-product sesame extraction is also produced. Sesame seed extraction / meal is a high protein (45-47%) feed meal being used as a valuable ingredient in poultry feed. Hulled sesame seeds which are widely used in bakery and confectionery industry are derived by removing the outer skin of natural seeds through the process called hulling. It has two types depending upon its drying process - Autodried and Sundried. Developed countries prefer auto while developing nations buy sundried which is more reasonable.

## Sesame Seed Exports

India's main export is of mainly below type:

Natural White Sesame Seed: 99/1/99.90%, 99/1/1, 98/2/2, 95/5/2

Hulled Sesame Seed: AutoHulled and Sundriedhulled - 99.5%-99.98%.

China, Taiwan, Korea, U.S., Europe, Middle East and Australia are the major destinations for Indian sesame seeds. Russia is a big buyer of Sundried hulled variety. In the year 2007-08, India exported sesame of value more than ninety million dollars to various countries with China being the biggest buyer.

The prices of sesame seeds are highly volatile and can swing to great extent in a day. The information regarding its crop size in different parts of the world is not easily available and that's why the crop estimates keep on changing. This information gap gives opportunities to big stockists to dictate the sesame movement to their advantage. Also there is no futures platform for sesame seed in India, so exporters and traders cannot hedge their price risk and are prone to the sudden fluctuations.

### White Sesame Seeds



White Sesame Seeds from Gujarat state is widely preferred due to its uniform colour and bold size. Different grades available are :

#### Features

- Sesame seed is seed of *sesamum indicum* pedaliaceae family.
- Seeds origin from top quality soil.
- It is carefully cleaned before it is sold.
- It is extensively used for the application in bakery products such as bread, bread sticks, cookies, candies, pasta, vegetables and curry dishes.
- The taste of roasted sesame seeds has wide applications in food industries including chocolate and ice cream and halva.
- Sesame oil is widely used prominently in Asian countries for various applications
- As it is cholesterol free so being used in health food industries.

Item

Sesame Seeds -  
Natural 99/1

Sesame Seeds -  
Natural 98/2

Small White  
Sesame Seed

Origin

Gujarat (India)

Gujarat (India)

Assam, Tripura (India)

Purity

99%

98%

99%

Admixture

1%

2%

1%

Quality

99% whitish,  
1% Dark Coloured  
1% rain Damaged

99% whitish,  
2% Dark Coloured  
2% rain Damaged

95% whitish,  
5% Dark Coloured

Moisture

8% Maximum

8% Maximum

8% Maximum

FFA

2% Max

2% Max

2% Max

Oil Content

48% Minimum

48% Minimum

48% Minimum

Packing

50 Kgs. in Jute / P.P.  
Bags Gross for Net

50 Kgs. in Jute / P.P.  
Bags Gross for Net

50 Kgs. in Jute / P.P.  
Bags Gross for Net

Quantity

18 MTs / FCLs

18 MTs / FCLs

18 MTs / FCLs

## Natural Sesame Seeds



Natural Sesame Seed

Natural Sesame Seed

- We handle and process only the Gujarat origin sesame seed which is considered the best among all varieties.
- We are the only one world over who offers Natural sesame with purity level of 99.99%.

- We have made this possible due to our 20 year experience in dedicated line of this business.

- We handle both Whitish and Black Natural Sesame Seed (99.99 % Pure).
- We can also supply TOASTED Natural sesame seed.
- We have branded our these quality products with “BEST HARVEST” brand.

## Specifications

### PHYSICAL

#### PURITY

99.99% Minimum

#### ADMIXTURE

00.01% Maximum

#### MOISTURE

5.0% Maximum

#### F.F.A.

1.5% Maximum

MICROBIOLOGICAL

TOTAL PLATE COUNT

20,000 cfu/gm max.

YEAST & MOULD

5,000 cfu/gm max.

STAPHYLOCOCCUS AUREAUS

Absent/gm

E.COLI

Absent/gm

SALMONELLAE

Absent/gm

CHEMICAL

BHC

Not Detected

DDT

Not Detected

ALDRIN

Not Detected

DETECTION LIMIT

0.01 PPM

### Packagings



- Multi wall paper bags/ plastic bags: 50 LBS/ 25 KGS / 25 LBS / 15 KGS / and smaller.
- VACUUM PACKED poly bags: 25 LBS / 5 LBS / and smaller.

### Hulled Sesame Seed



Hulled Sesame Seed

Toasted Hulled Sesame Seed

- We handle and process only the Gujarat origin sesame seed which is considered to be the best among all varieties.
- For hulling purpose we select appropriate natural sesame seed good for hulling and clean it to 99.99% purity. We have state-of-the-art hulling and drying automatic equipments.
- After hulling and drying, the hulled sesame seeds are recleaned to obtain its best possible form and purity levels. We can also supply TOASTED Hulled sesame seed.
- The hulled sesame seeds produced by us are uniformly bold in size and whiter in colour, which remains whiter even after baking and stick to breads very well.
- We have branded our this quality product with “DIAMOND” brand.

### Specifications

Physical

Purity

99.99% Minimum

Admixture

00.01% Maximum

Moisture

5.0% Maximum

F.F.A.

1.5% Maximum

Microbiological

Total Plate Count

20,000 Cfu/Gm Max.

Yeast & Mould

5,000 Cfu/Gm Max.

Staphylococcus Aureaus

Absent/Gm

E.Coli

Absent/Gm

Salmonellae

Absent/Gm

Chemical

Bhc

Not Detected

Ddt

Not Detected

Aldrin

Not Detected

Detection Limit

0.01 Ppm

- Multi wall paper bags/ plastic bags: 50 LBS/ 25 KGS / 25 LBS / 15 KGS / and smaller.
- VACUUM PACKED poly bags: 25 LBS / 5 LBS / and smaller.

## Natural White Sesame Seed

### Introduction

We are leading manufacturer and exporter of natural sesame seeds in India. We offer the finest quality Seeds which are whole and nutty.

Sesame seed comes from the family of “Sesamum Indicum”.

Our resources include skilled and efficient crop cultivators who harvest their crops in top quality soils.

The originations of these seeds are from the top quality soils.

Our vast experience and expertise in the business of sesame seeds has made it possible for us to process & deliver premium quality of natural sesame seeds.

Our array of natural sesame seeds are originated from the top quality soils.

Before we hull, these seeds are thoroughly cleaned and graded and thereby enhance uniform quality and size of the seeds. Natural sesame seeds are largely served in bakery products such as breads, bread sticks, cookies, candies, pasta, vegetables & curry dishes.

The toasted variety of natural sesame seeds are used in chocolate, ice-cream and halva.

Our natural sesame seeds are cholesterol free which makes it altogether healthy & nourishing.



The specifications are as under

Physical

Purity

99.99% Minimum

Admixture

00.01% Maximum

Moisture

5.0% Maximum

F.F.A. (As Oleic Acid)

1.5% Maximum

Microbiological

Total Plate Count

20,000 Cfu/Gm Max.

Yeast & Mould

5,000 Cfu/Gm Max.

Staphylococcus Aureaus

Absent/Gm

E.Coli

Absent/Gm

Salmonellae

Absent/Gm

Chemical

Bhc

Not Detected

Ddt

Not Detected

Aldrin

Not Detected

Detection Limit

0.01 Ppm

### **Packaging :**

- Multi wall paper or poly propylene ( PP) or jute bags of 50 Kg, 25 Kg & 50 LB.
- Poly Bags of 5 & 10 LB.

## **Hulled Sesame Seed Introduction**

Mechanically Hulled Sesame Seeds are considered as the most nutritious seeds because of its protein and valuable Minerals.

The husk hull (skin) of these seeds are removed hence are called as Hulled Sesame Seeds.

Prior to hulling process, these sesame seeds are thoroughly cleaned. Hulled Sesame Seeds are relatively softer and delicious as compared to Natural Sesame Seeds.

Machineries used by us for various processes such as cleaning, hulling, drying, color-sorting, etc., are modern & high-tech. They are processed in absolute germ - free & hygienic conditions. Our hulled sesame seeds are processed and re-cleaned in such a way that it's intrinsic richness, nutrition's and flavors remains in one piece & intact.

Our hulled sesame seeds are produced in a manner that its original white color is sustained even after it is baked. They are sprinkled on breads as well.





The specifications are as under

We provide the best quality of toasted hulled sesame seeds wherein premium color is sorted.

Physical

Purity

99.99% Minimum

Admixture

00.01% Maximum

Moisture

5.0% Maximum

F.F.A. (As Oleic Acid)

1.5% Maximum

Microbiological

Total Plate Count

20,000 Cfu/Gm Max.

Yeast & Mould

5,000 Cfu/Gm Max.

Staphylococcus Aureaus

Absent/Gm

E.Coli

Absent/Gm

Salmonellae

Absent/Gm

Chemical

Bhc

Not Detected

Ddt

Not Detected

Aldrin

Not Detected

|                 |
|-----------------|
| Detection Limit |
|-----------------|

|          |
|----------|
| 0.01 Ppm |
|----------|

### Packaging

- New Multi wall paper bags of 10 kg, 12.5 kg, 25 kg, 25 LB & 50 LB.
- Poly Bags of 5 & 10 LB.

### Introduction

Sesame (ses´eme) is the dried, oval-shaped seed of the herb *Sesamum indicum*. Also known as Til, bennes and gingelly, it is an important oilseed crop. Africa is considered to be the primary centre of origin of this crop. India and Japan are considered as secondary centres of origin.

Sesame seed is an important ingredient in culinary traditions of many countries, especially the countries in West Asia. Sesame seed carry 55% of oil content. Sesame oil is used for cooking, cosmetics, paints and lubricants. The byproduct obtained after extracting oil is used as feed for livestock.

Global output of sesame seed is estimated at around 3 million ton per year with India and China dominating production. Global sesame output occurs mainly around few countries in Asia and Africa. Global sesame seed trade is estimated 500,000-600,000 ton per year.

India accounts for nearly 30% of global output and plays an important role in global sesame business. Mainly cultivated in Maharashtra, Rajasthan, Gujarat, Madhya Pradesh, Karnataka, Orissa and West Bengal, sesame seeds come in three varieties in the country -- yellowish, red and black seeds.

The eastern region comprising West Bengal, Orissa, Assam and Andhra Pradesh mostly

produce red and black variety sesame which is inferior to the white sesame grown in Maharashtra and other western states. In the eastern region sesame is normally sown after the potato crop with mild doses of fertilizers. Not much irrigation is required.

The total global production of sesame seed sums up to around 30 lakh tons annually, China being the highest seed producer. The production as well as consumption of sesame seeds has been in the up trend since the last decade and both the figures are rising steadily.

Sesame seed oil has been used as healing oil for thousands of years. Sesame oil is mentioned in the Vedas as excellent for humans. It is naturally antibacterial for common skin pathogens, naturally antiviral and a natural anti inflammatory agent.

In recent experiments in Holland by Ayurvedic physicians, the oil has been used in the treatment of several chronic disease processes, including hepatitis, diabetes and migraines.

**Product Characteristics**

Sesame seed contains a high percentage of oil (ca 55%), which has a very good stability due to the presence of natural anti-oxidants. There are three types of sesame seed, depending on the colour of the seeds, namely: white, brown and black. The white-seeded varieties have higher oil content than their black-seeded counterpart.

**Indian Scenario**

India occupies the first place both regarding acreage and production. Maximum acreage and production of sesame seed is in Uttar Pradesh but West Bengal gives the maximum yield per hectare. Production, Consumption and Exports of Sesame Seed in India-Figures in Lakh MT

|                  |         |         |         |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                  | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
| Total Production |         |         |         |         |         |         |         |         |         |
|                  | 7       |         |         |         |         |         |         |         |         |
|                  | 8       |         |         |         |         |         |         |         |         |

8

Kharif

4.5

5.5

4.2

Rabi

2.5

2.5

3.8

Usage for Oil

1.6

1.9

1.7

Exports

5.4

6.1

6.3

Source: Directorate of Economics & Statistics, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India

### Applications/Usage

of Sesame Seed

- t Manufacturing sesame oil – Sesame oil is extensively used for cooking, manufacturing perfumed oils and medicine.
- t Baking and preparation of sweets and confectionery (e.g., benne cakes).
- t Manufacturing sesame cake – It is a rich source of protein, carbohydrates, and minerals like calcium and phosphorous. The cake is edible and is eaten avidly by labour classes. It is also a valuable and nutritious feed for milch cattle.

### Specifications

Physical

Purity

99.99% Minimum

Admixture

00.01% Maximum

Moisture

5.0% Maximum

F.F.A.

1.5% Maximum

Microbiological

Total Plate Count

20,000 Cfu/Gm Max.

Yeast & Mould

5,000 Cfu/Gm Max.

Staphylococcus Aureaus

Absent/Gm

E.Coli

Absent/Gm

Salmonellae

Absent/Gm

Chemical

Bhc

Not Detected

Ddt

Not Detected

Aldrin

Not Detected

Detection Limit

0.01 Ppm

- NCDX-
- Quality specifications Natural Whitish Sesame Seeds 98x2x2 grade with the following specifications:
  - Whitish seed 98% (Basis)
  - Other coloured seeds 2% (Basis)
  - Admixture 2% (Basis)
  - Free Fatty Acids 2% (Max)
  - Moisture 6% (Max)
  - Oil content 48% (Min)
  - Rain damaged seeds 1% (Max)

### Features :

- Sesame seed is seed of sesamum indicum pedaliaceae family.
- Seeds origin from top quality soil.
- It is carefully cleaned before it is sold.
- It is extensively used for the application in bakery products such as bread, bread sticks, cookies, candies, pasta, vegetables and curry dishes.
- The taste of roasted sesame seeds has wide applications in food industries including chocolate and ice cream and halva.
- Sesame oil is widely used prominently in Asian countries for various applications
- As it is cholesterol free so being used in health food industries.

### Varities Traded In Market & Export

| Item |
|------|
|------|

|                             |
|-----------------------------|
| Sesame Seeds - Natural 99/1 |
|-----------------------------|

|                             |
|-----------------------------|
| Sesame Seeds - Natural 98/2 |
|-----------------------------|

|                         |
|-------------------------|
| Small White Sesame Seed |
|-------------------------|

| Origin |
|--------|
|--------|

Gujarat (India)

Gujarat (India)

Assam, Tripura (India)

Purity

99%

98%

99%

Admixture

1%

2%

1%

Quality

99% whitish,  
1% Dark Coloured  
1% rain Damaged

99% whitish,  
2% Dark Coloured  
2% rain Damaged

95% whitish,  
5% Dark Coloured

Moisture

8% Maximum

8% Maximum

8% Maximum

FFA

2% Max

2% Max

2% Max

Oil Content

48% Minimum

48% Minimum

48% Minimum

Packing

50 Kgs. in Jute / P.P.  
Bags Gross for Net

50 Kgs. in Jute / P.P.  
Bags Gross for Net

50 Kgs. in Jute / P.P.  
Bags Gross for Net

Quantity

18MTs / FCLs

18MTs / FCLs

18MTs / FCLs

**Products for International Markets**

Products ↓

Hulled Sesame Seeds

Less Browning 1 (Deluxe Premium)

Deluxe Premium

Premium

Semi Premium

Lower Semi Premium

Natural Sesame Seeds

Natural White

Natural Black

Oil Crushing Grade

Hulled Oil Crushing

Natural Oil Crushing

General Specifications

Purity

Moisture

Oil

FFA

%

%

%

%

99.99

3.5 to 4.0

60

0.20

99.99

60

0.23

99.99

59

0.23

99.98

59

0.25

99.97

58

0.30

99.95

4.5 to 5.0

51

1.23

99.95

51

1.73

99.30

3.5 to 4.5

55

0.86

98.50

5.0 to 5.5

48

3.50

1. Special Quality for baking purposes. "Browning" of seeds while baking is extremely less.
2. Average Product Specifications compiled from data of actual shipments.
3. Contact us to get more product specifications & details.

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