

SUGAR DELICATA

F1 Hybrid Watermelon

Experimental

OUTSTANDING QUALITIES

- DIPLOID SUGAR BABY
- **♦ EARLY MATURING**
- VERY GOOD SHIPPING ABILITY
- GOOD DISEASE RESISTANCE

Sugar Delicata is an early maturing sugar baby F1 hybrid water melon. Sugar Delicata is suitable for sowing open field and in low tunnels where cold temperature



prevail. Sugar Delicata has high resistance to Anthracnose (Co) and Fusarium wilt race 1 (Fon: 1). Sugar Delicata has a very good shipping and keeping ability. Sugar Delicata has excellent eating qualities with a crispy flesh texture.

SPECIAL VARIETAL REQUIREMENTS

Suitable for early spring sowings

CHARACTERISTIC*	SUGAR DELICATA
KIND	F1 hybrid watermelon (Citrullus lanatus (Thunb.) Matsum. et Nakai)
TYPE	Diploid Sugar Baby
MATURITY	Early (75 – 80 days after sowing during warm season)
GROWTH HABIT	Trailing
PLANT VIGOUR	Strong
SEASON	Summer
FRUIT SIZE	Weight: 9 - 12 kg
FRUIT SHAPE	Oblong
INERNAL FLESH COLOUR	Deep red
FRUIT DIMENSION	Approximately 40 x 20 cm
RIND QUALITIES	Very dark green
BRIX	High
FLAVOUR	Excellent: sweet with good flavour
UNIFORMITY	Excellent
LEAF COVER	Good
DISEASE REACTION (SCIENTIFIC)	High resistance: Fusarium oxysporum f. sp. niveum race 1 (Fon: 1) and Collectotrichum orbiculare (Co)
AVERAGE SEED COUNT	30 seeds per gram
MARKET / END USE	Fresh market, fresh processing and export
POPULATION GUIDE	Up to 6 000 final stand per ha
SPECIAL FEATURES	Early maturing with high resistance to Anthracnose and Fusarium wilt race

^{*} Characteristics given are affected by production methods such as soil type, nutrition, planting population, planting date and climatic conditions. Please read disclaimer.

Disclaimer: This information is based on our observations and/or information from other sources. As crop performance depends on the interaction between the genetic potential of the seed, its physiological characteristics, and the environment, including management, we give no warranty express or implied, for the performance of crops relative to the information given nor do we accept any liability for any loss, direct or consequential, that may arise from whatsoever cause. Please read the Sakata Seed Southern Africa (Pty) Ltd Conditions of Sale before ordering seed.

Resistance: is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure (HR = High resistance, IR = Intermediate resistance).

Experimental: This variety does not appear on the current South African Variety list, but has been submitted for registration.

Recent version: Kindly contact Sakata or Area Representative for the most recent version of this Technical Bulletin.



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GENERAL TIPS FOR WATERMELON PRODUCTION

Harvest maturity

Watermelon is harvested at full maturity as it does not develop in internal colour or increase sugar after being removed from the vine. Watermelon maturity can be determined by a combination of factors:

- Fruit colour
- Dull sound when thumped
- Yellow colour of ground spot
- Various stages of tendril and floral bract drying out near the fruit peduncle
- Gelatinous covering around the seed is no longer apparent.
- Mid pink to dark red flesh colour
- Brix with a refractometer of > 9 ° indicates maturity
- Tasting samples
- Slight cracking sound internally if pressed

Storage and transport conditions

Watermelon storage life is typically 14 days at 15 °C. Up to 21 days is attainable at 7 - 10 °C. Chilling injury occurs after storage below 7 °C.

Ideal storage humidity is between 90 - 95 %. High relative humidity is essential to maximize post harvest quality and to prevent desiccation. Water loss through scuffed and damaged surfaces can be significant. Extended periods of higher humidity or condensation may encourage the growth of stem scar and surface moulds.

Physiological disorders

Cracking of fruit

Cracking of fruit can occur when boron is deficient in the melon fruit. This cracking will occur longitudinally along the melon fruit and will heal leaving a corky scar. symptom seems to mainly occur in winter. Petiole cracking may occur and leaf symptoms (tip of leaves) may resemble virus infections. Correction is by applications of 2 – 3 kg/ha of soluble boron at or just before flowering via drippers. Foliar sprays can be used as emergency applications. Fluctuations in irrigation and/or rain close to harvesting time may also results in cracked fruit. Manage irrigation schedule carefully.

Blossom-end Rot (BER)

The affected fruits are misshapen with a brown, leathery, rotten lesion at the blossom end. The disorder is most prevalent during or followed by extended dry periods of days of overcast cool weather. This is caused by insufficient calcium in the fruit, nematode damage and excessive nitrogen and potassium fertilisation. Maintaining a constant soil moisture level by mulching and by monitoring soil moisture carefully, can reduce BER. BER can be minimised by liming the soil with dolomitic lime before planting, timely irrigation to alleviate prolonged drought periods. Calcium-Nitrate side-dressings can also reduce this problem.

Pruning affected fruit will often result in new fruit forming. Foliar sprays of Calcium are not effective for control.

Misshapen fruit

Gourd-necked or bottle-necked fruit are produced due to moisture stress, inadequate pollination, diseases and nutrient deficiencies, especially nitrogen. Manage irrigation carefully, assure enough bees are active for proper pollination and apply a balanced fertiliser programme.

Bursting Fruit

Bursting is mainly caused by uneven growth rate, particularly when there is a heavy rain fall while the fruit is maturing. Manage irrigation schedules carefully.

White heart

White streaks or bands of undesirable flesh in the heart (centre) of the fruit. Excessive moisture and too much nitrogen are the main causes for white heart during fruit Apply a balanced fertiliser programme and maturation. monitor irrigation schedules closely.

Disease resistance definition

Resistance: is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure. Two levels of resistance are defined:

High/standard resistance (HR): plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.

Moderate/intermediate resistance (IR): plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to resistant varieties. Moderately/ intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.

Susceptibility (S): is the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

Tolerance (T): is the ability of a plant variety to endure abiotic stress without serious consequences for growth, appearance and yield. Vegetable companies will continue to use tolerance for abiotic stress.

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