



incotec

the seed enhancement company

Part of Croda International Plc

PRODUCT INFORMATION SHEET

TOMATO X-ray neXt

X-ray neXt technology consists of a synergetic combination of complex techniques. Applying state of the art technologies including deep learning to refine the performance of X-ray upgrading has resulted in the next step in X-ray seed upgrading: X-ray neXt. This intelligent technology has brought upgrading to the next level of efficiency. Seed selection has never been more efficient or more able to deliver maximum yield from your tomato seed lot while maintaining the requested Useable Transplants percentage (UT%). X-ray neXt upgrades a tomato seed lot in a highly accurate manner and delivers more selected seeds given your requested UT%. This is a result of new smart technology that selects and assesses subtle abnormalities much better and faster than the human eye can. Seed should be primed before X-ray upgrading first. X-ray neXt is available in 4 options:

1. X-ray neXt Senso: is a sensitive priming which offers a good speed of emergence without the risk of blind plants, and consequently will enhance vegetable stand establishment.
2. X-ray neXt Presto: for cultivars that are not susceptible to blind plants, the Presto priming offers an even higher increased speed of uniform emergence.
3. X-ray neXt Premium: Incotec's new, unrivalled tomato priming which will help seed to emerge in the quickest and most uniform way. The risk of blind plants is minimal, the priming is suited for all seed varieties.
4. X-ray customer primed: X-ray neXt is also available for customer primed seed.

1. Seed norms

Minimum seed quantity	For commercial orders a minimum of 350 T seeds is needed.
Pilot quantity	<p>Before a commercial order a prognosis is required. The prognosis is based on X-ray images linked to the germination results and will provide the upgrading possibilities.</p> <p>After the customer receives the prognosis, a pilot sample is recommended before commercial production. Pilot Sample X-ray neXt is an actual X-ray neXt upgrading with a small amount of seeds to obtain more certainty about the upgrading possibilities. After the pilot the customer will receive the upgraded seed.</p> <p>Seed primed by Incotec Prognosis with intake: 100 g Pilot sample: 40 T seeds</p> <p>Seed primed by customer Prognosis: 3 T seeds Pilot sample: 40 T seeds</p>
Validity of pilot	For both prognosis and pilot the period of validity is 6 months.



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Minimum lead time	Based upon availability of capacity. Seed primed by Incotec Prognosis with intake: 27 working days Pilot sample: 16 working days Commercial production: 24 working days Seed primed by customer Prognosis with intake: 20 working days Pilot sample: 20 working days Commercial production: 14 working days
Seed age	No norms
Seed size norm	No norms
Thousand seed weight	No norms
Relative humidity	30 – 50%
Seed health	Seed should be free of seed borne pathogens.
Physical characteristics	In seed lots deviating seeds may occur. Incotec will contact the customer in case this will have consequences for the upgrading effect. Double seeds can not be upgraded by X-ray neXt and will be removed.
Minimum germination norm	The primed seed is tested at 25°C in a climate chamber. No norms have been set. Germination of raw seed and final product are executed at the same time. Minimum leadtime of germination is 15 days.
Pre-treatment	Seeds should not be film coated or pre-treated with any plant protection product. Only clean and primed seed can be upgraded with X-ray neXt.
Surplus production	Depending of the quality input, and requested output quality.

2. Label

The minimal label requirements for all incoming seed lots are:

- Quantity
- Crop
- Variety
- Name
- Customer (seed) lot number
- T.S.W.

A plant passport (Commission implementing regulation - EU) is required within the EU.

GSPP (Good Seed and Plant Practices) if applicable, mentioned on the incoming order form will be generated on the label of the end product.





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3. Seed technology

1. Upgrading

2. Priming, seed must be primed before X-ray neXt upgrading. There are four options for priming: Presto, Senso, Premium and customer primed seed. Senso is most recommended for lots which are sensitive to developing blind plants and the Presto priming is most suitable for lots which are not sensitive for developing blind plants. Promotor Premium is Incotec's new, unrivalled tomato priming which will help seed to emerge in the quickest and most uniform way. The risk of blind plants is minimal and the priming is suited for all seed varieties.

Minimum germination norms final seed

Final product is tested at 25°C in climate chamber. No norms have been set. Results are depending on quality of incoming seed and on the specific upgrading possibilities of the seed lot. Germination of raw seed and final product are executed at the same time. Minimum leadtime of germination is 15 days.

Microplastic free

Yes

4. Output

Information on the output can't be given as it is depending on the quality of the incoming seed lot.

5. Storage processed seed

Storage

Recommended storage conditions are 15°C/30% relative humidity or lower.

Shelf life

For Incotec primed seed: shelf life as primed seed, 18 months after production when stored in accordance with the recommended storage conditions in closed cans/buckets and subject to seed quality.

For customer primed seed shelf life is not known because of customer priming.

Shipping

Cool and dry conditions during shipping are recommended. High temperatures should be avoided and should last as short as possible.

6. Packing options

Name and contents

Tin Can NS (55 T seeds) Tin Can L (200 T seeds) Tin Bucket S (850 T seeds) Tin Bucket XXL (4,250 T seeds)

7. Remarks

X-ray neXt is suitable for seed lots that do not meet the required germination or Useable Transplant norms. Upon request pelleting of the Q1 fraction is an option.

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