

## Product Information

# NOVA HUMIC NPK®

## 20-18-20+TE+HA

Our new water-soluble line of fertilizers for fertigation is a winning combination of NPK, trace elements (TE), and humic acids. Humic acids are organic substances created during the decomposition of organic matter from plants, animals, and bacteria. Humic acids have a complex structure that mainly affects the soil's colloidal structure, improving its ability to retain nutrients and efficiently transfer them to plants. During plants' early developmental stages, humic acids provide a supplementary source of polyphenols, which act as respiratory catalysts. Humic acids do not compete with plants and do not consume nutrients.

NovaHumic is formulated with a highly branched humic acid fraction exhibiting elevated cation exchange capacity (CEC) and enhanced chelation properties, facilitating improved nutrient solubilization and translocation within the rhizosphere. Particle size distribution is tightly controlled to maintain low turbidity and prevent emitter clogging, ensuring compatibility with high-frequency fertigation systems and precision irrigation protocols.

### Product benefits

- Improves the roots' absorption of nutrients. The root systems show improved development, which ultimately increases the crop yield and quality
- Reduces the impact of stress by improving root development and activity
- Increases the soil's cation exchange capacity
- Humic acid degrades slowly and efficiently over a prolonged timeframe
- Ensures a uniform and efficient distribution of irrigation water and fertilizers
- High values of NPK + TE
- All-in-one convenience of solving water quality problems with one product
- Environmentally sustainable
- Chloride free, suitable for chloride sensitive crops

### Application rates

20-18-20+TE+HA is especially recommended as a starter fertilizer and for the crop growth phase.

Apply 4-5 kg/1,000 m<sup>2</sup> per week.

Contact ICL or your professional advisor for specific advice or recommendations.

### Directions of use

For dilution tables please visit [www.icl-growingsolutions.com](http://www.icl-growingsolutions.com)



### Product characteristics

Maximum solubility: 25 kg/100 L water (25°C)

pH: 5.33 (at 1% solution)

pH: 4.89 (at 10% solution)

EC value: 0.93 mS/cm (at 1 g/L)

Solution color: brown

Packaging: 25 kg bag (PE)

Item code: 6120182001

### Guaranteed analysis

Total nitrogen (N)	20%
Nitrate nitrogen (N-NO <sub>3</sub> )	5.9%
Ammonium nitrogen (N-NH <sub>4</sub> )	3.1%
Urea nitrogen (N-NH <sub>2</sub> )	10.9%
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> )	18%
Potassium oxide (K <sub>2</sub> O)	20%
Humic acid	1.5%
Copper (Cu)*	0.0025%
Iron (Fe)*	0.04%
Manganese (Mn)*	0.02%
Molybdenum (Mo)	0.0025%
Zinc (Zn)*	0.01%

\*Chelated by EDTA



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Attention: As circumstances can differ and as application of products is beyond our control, ICL cannot be held responsible for any negative results. With this publication, all previous given recommendations expire. Before a new rate, product or application method is used, a small scale trial is recommended.