PK fertilizers
The best way to ensure balanced fertilization
**Know the advantages of PK fertilizers**

Our PK fertilizers are balanced formulations of phosphorus (P) and potassium (K) nutrients without nitrogen (N) but with a wide range of secondary elements such as sulphur (S), magnesium (Mg) and calcium (Ca) in one granule.

Use PK fertilizers in direct applications in your fields, orchards or plantations for superior yields, improved quality and increased profitability.

**Apply PK fertilizers before planting**

P and K are essential in activating germination and stimulating root development. During these very first stages, there is little need for N, however P and K are needed for early growth and optimum crop development.

Start your fertilization program with PK fertilizer before planting to provide basic fertilization to maintain or replenish soil P and K reserves.
Follow PK fertilizers with N application if needed

By separating PK from N application, N can be applied after germination at the right time for your crop, in the right form, and in right weather conditions avoiding N overdosing or leaching. With PK fertilizers you can achieve higher N use efficiency without waste and unnecessary cost to your business or the environment.

Apply PK fertilizers for a balanced nutrient supply

PK fertilizers applied before planting provide basic balanced nutrient supply throughout the crop growth cycle.

In addition, PK fertilizers deliver comprehensive nutrition for nitrogen-fixing legumes, where no nitrogen fertilization is needed.

PK fertilizers build a stable and balanced level of nutrients in the soil. It is the ideal solution when straw or crop residues are removed or where N use is restricted by nitrate vulnerable zone rulings.

In PK fertilizers the secondary nutrients (S, Ca, and Mg) reduce the risk of soil deficiencies in these key nutrients and help to ensure higher crop yield and quality.

Recommended application rates

<table>
<thead>
<tr>
<th>Crop</th>
<th>Application rate (kg/ha)</th>
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</thead>
<tbody>
<tr>
<td>Rape seed</td>
<td>200-300</td>
</tr>
<tr>
<td>Winter wheat</td>
<td>250-400</td>
</tr>
<tr>
<td>Peas / beans</td>
<td>150-250</td>
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</tbody>
</table>

The suggested doses are given for information only and should be adapted to soil fertility and target yields.

Higher crop yield and quality
PK product range

Find your formula to meet specific crop requirements and match your soil fertility level.

ICL PK Fertilizers

<table>
<thead>
<tr>
<th>PK Range</th>
<th>Formula</th>
<th>P Contents</th>
<th>K Contents</th>
<th>S Content</th>
<th>CaO Content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High P</strong> For best plant establishment</td>
<td>PK 28-20 (+2.1 S + 16.9 CaO)</td>
<td>PK 30-15 (+3.0 S + 19.6 CaO)</td>
<td>PK 31-13 (+3.5 S + 21.4 CaO)</td>
<td>Apply in soils with low P status</td>
<td></td>
</tr>
<tr>
<td><strong>Balanced P and K</strong> For balanced and efficient supply</td>
<td>PK 20-25 (+3.8 S + 16.7 CaO)</td>
<td>PK 20-30 (+2.0 S + 13.1 CaO)</td>
<td>PK 25-20 (+3.5 S + 18.5 CaO)</td>
<td>PK 25-25 (+1.6 S + 14.5 CaO)</td>
<td>Apply in soils with low P and K status</td>
</tr>
<tr>
<td><strong>High K</strong> For extra crop quality</td>
<td>PK 7-40 (+3.9 S + 10.8 CaO)</td>
<td>PK 8-35 (+4.4 S + 12.0 CaO)</td>
<td>Apply in soils with low K status</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tailor made ICL PK fertilizers with additional micronutrients at request

Excellent source of P and K for all crops and soils
Provide additional valuable secondary nutrients (S and Ca)
Tailor-made formulae with additional Mg, S and micronutrients
ICL's premium PK fertilizers

**High P**
*For best plant establishment*
- ICL PKpluS 18-7
  (+3 MgO + 11 S + 21 CaO)
- ICL PKpluS 18-13
  (+3 MgO + 8 S + 19 CaO)
- ICL PKpluS 20-5
  (+2 MgO + 11 S + 24 CaO)
- ICL PKpluS 29-5
  (+2 MgO + 7 S + 21 CaO)

Apply in soils with low P status

**Balanced P and K**
*For balanced and efficient supply*
- ICL PKpluS 16-16
  (+2 MgO + 8 S + 18 CaO)
- ICL PKpluS 18-18
  (+6 MgO + 6 S + 15 CaO)
- ICL PKpluS 20-20
  (+2 MgO + 6 S + 15 CaO)
- ICL PKpluS 29-5
  (+2 MgO + 7 S + 21 CaO)

Apply in soils with low P and K status

**High K**
*For extra crop quality*
- ICL PKpluS 6-30
  (+5 MgO + 7 S + 11 CaO)
- ICL PKpluS 8-15
  (+6 MgO + 10 S + 19 CaO)
- ICL PKpluS 10-15
  (+5 MgO + 10 S + 19 CaO)
- ICL PKpluS 10+20
  (+5 MgO + 8 S + 16 CaO)
- ICL PKpluS 10-25
  (+4 MgO + 7 S + 13 CaO)
- ICL PKpluS 10-30
  (+6 MgO + 5 S + 10 CaO)
- ICL PKpluS 12-24
  (+2 MgO + 7 S + 14 CaO)
- ICL PKpluS 15-30
  (+2 MgO + 4 S + 11 CaO)

Apply in soils with low K status

Tailor made ICL PKpluS fertilizers with additional micronutrients at request

Fully soluble with all nutrients available for plant uptake in one granule
Give full flexibility with the N source and dose
Prevent N overdosing and unnecessary leaching of N
ICL PKplus fertilizers

- PK premium granulated fertilizers with Polysulphate technology
- Five nutrients in one: phosphorus, potassium, magnesium, sulphur and calcium in one single application
- Less chloride content
- A considerable proportion of the potassium and magnesium content is in sulphate form (20%), allowing flexible use in many crops
- Extended nutrient availability, reduced risk of sulphate losses through leaching

Deliver superior yields, improved quality and increased profitability  
Easy, uniform distribution in the field with all modern mechanical spreaders  
Good hardness guarantees maintenance of quality during handling, bulk blending and field application
Our nutrients play an essential role in your success

- **P** is a vital component of ATP and DNA
- **P** has an essential role in photosynthesis
- **P** stimulates root development

- **Mg** is the central component of chlorophyll
- **Mg** is involved in the activation of several enzyme systems

- **K** is known as the "quality" nutrient
- **K** is essential in sugar and starch formation
- **K** increases plant vigour, and resistance to diseases and low temperatures

- **Ca** is responsible for plant cell division and for strengthening cell walls
- **Ca** improves disease and frost resistance

- **S** is vital to the formation of amino acids and is crucial in the production of proteins
- **S** has an important role in photosynthesis