

Application of Patentkali®

- The outstanding characteristics of **Patentkali** – fully water soluble and immediately availability to plants irrespective of soil pH combined with a low salt index and a low chloride content – allows broad application in agriculture and horticulture.
- Suitable for pre-planting application even close to planting due to low chloride content.
- Also highly suitable for top dressing throughout the growing season (particularly effective on light soil types) to boost K, Mg and S.
- **Patentkali** is a true compound product and is tested to spread to 36m.
- **Patentkali** is the ideal fertiliser to supplement N and P based fertiliser systems whether straight or in the form of bulk blends.
- Being derived from natural occurring salt deposits, **Patentkali** is approved under EU Directives EC No. 834/2007 and 889/2008 for use in organic farming and is certified by the Soil Association.



Recommended Application Rates

Application rates should ideally be site specific and based on the content of exchangeable potassium and magnesium in the soil, the yield expectations and the use of organic manures.

The following rates give a general indication assuming an average content of exchangeable K and Mg in the soil.

Crop	kg/ha Patentkali
Peas and beans	100 - 200
Potatoes	750 - 1100
Brassicas	500 - 700
Leafy vegetables	300 - 600
Root Vegetables	400 - 1000
Onions and leeks	300 - 600
Top fruit	200 - 600
Soft fruit	300 - 600
Ornamentals	300 - 500
Trees	200 - 400
Organic grassland – grazed	100 - 200
Organic grassland – silage	400 - 800

For information on how you can benefit from using **Patentkali** in your fertiliser program, call the Technical Helpline on **FREephone 0800 0322480**.

Patentkali®

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Patentkali®
30% K₂O · 10% MgO · 42% SO₃



EC FERTILISER

Potassium sulphate with magnesium 30 (+10+42)

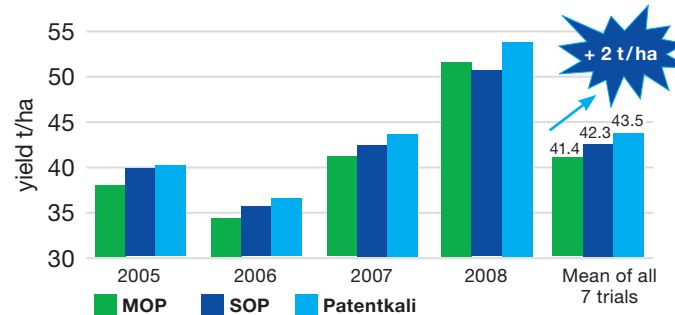
30% K₂O water-soluble potassium oxide (= 25% K)
10% MgO water-soluble magnesium oxide (= 6% Mg)
42% SO₃ water-soluble sulphur trioxide (= 17% S)

- **Patentkali** is a highly concentrated three-nutrient fertiliser based on potassium and magnesium especially suited to the production of high quality cash crops.
- **Patentkali** contains potassium, magnesium and sulphur in an ideally balanced ratio for plant growth and development.
- **Patentkali** is fully water-soluble and hence immediately available to crops.
- **Patentkali** is effective in all types of soils irrespective of soil pH.
- **Patentkali** with a low salt index and low chloride content makes an ideal K, Mg and S source for chloride sensitive crops and for conditions prone to salinity.
- **Patentkali** is a natural product formed entirely from ancient marine sediments.
- **Patentkali** has been a well established fertiliser in organic farming system for decades.

- **Patentkali** is suitable for all annual and perennial crops in agriculture and horticulture. **Patentkali** is specifically recommended for use on high value crops such as potatoes, vegetables, fruit, flowers and trees.
- Continuous harvest of high yielding crops inevitably depletes the natural soil reserves of K, Mg and S. Visible and subclinical potassium, magnesium and sulphur deficiencies increase. **Patentkali**, containing 30% K₂O, 10% MgO and 42% SO₃, guarantees immediate availability of these three nutrients, enabling crops to reach their full yield potential.
- **Patentkali** supplies nutrients in a suitable ratio particularly for crops with a specific demand for sulphur (oil crops, brassicas, onions and leeks) or magnesium (potatoes, fruit trees).

- Potassium, magnesium and sulphur improve crop quality by controlling enzyme functions, promoting protein synthesis and starch/sugar formation. Juice, acid and vitamin A content are increased, benefitting taste and colour.
- The potato crop has high requirements for both potash and magnesium. The use of **Patentkali** ensures that the crop is adequately supplied with these vital nutrients throughout the cropping season. Optimised physiological processes in the tuber help to reduce the incidence of enzymatic browning and to reduce storage losses. Additionally **Patentkali** improves the taste and starch content of potatoes.
- Further beneficial effects of **Patentkali** result from improved plant vigour and disease and pest resistance as a result of stronger cell walls and thicker cuticles, which in turn reduce necrotic spotting and improve overall appearance.
- Improved storage, handling and transport characteristics make the application of **Patentkali** profitable for top quality products destined for lucrative domestic and international markets.
- Its low chloride content makes **Patentkali** the ideal fertiliser for use on chloride sensitive crops such as potatoes, salads, vegetables, fruits and ornamentals.

Potash trials – different K products in potatoes



Armstrong-Fisher 2008

