

SILICON PHOSPHITE FOR CROP STRENGTH, QUALITY AND SHELF LIFE

TenSile is a highly efficient liquid nutrient combining Silicon and Potassium with phosphite P and seaweed derived natural biostimulants.

TenSile contains a soluble form of Potassium Silicate to strengthen stem and leaf tissue for healthier, more robust arable, vegetable and salad crops.

How it works

- Silicon deposited in the cell walls forms a protective layer reducing transpiration through the outer cells.
- Plants wilt less and are more tolerant of heat stress.
- Increased strength in cell walls improves leaf presentation to light and enhances stem strength.
- Soluble Silicon enhances nutrient uptake and can increase chlorophyll concentration.
- Leaves can be thicker and darker green compared to those grown without soluble silicon.
- Epidermal cell walls containing Silicon deposits can act as a mechanical barrier to fungi and insects.

In studies, Silicon has been shown to act as a key element in cell structure, increasing in concentration where cell integrity is threatened, and at the same time reducing transpiration and water loss, important factors in extending the shelf life of vegetables and leafy salads.

Independent on-farm assessment 2013: Romaine leaves processed at 5 days post harvest:



Control



TenSile @ 2 l/ha x 3 applications

Oxidation levels at processing + 9 days.

Shelf life was visibly improved in the crop treated with TenSile.



Replicated independent trials carried out by **Agrochemex in 2012/13** on Winter Wheat have shown 2 x applications of **TenSile @ 1.25 l/ha** resulted in a yield increase of **0.4 T/ha** as well as enhanced straw strength and consequent resistance to lodging.

ANALYSIS:

Phosphorus Pentoxide (P ₂ O ₅)	2% w/v	(20 g/l)
Potassium Oxide (K ₂ O)	8% w/v	(80 g/l)
Silicon (SiO ₂)	8% w/v	(80 g/l)

Also contains bio active agents derived from Ascophyllum Nodosum seaweed @ 2% w/v (20g/l).

Formulated as a highly soluble and stable liquid, **TenSile** is a “ready-to-go” product, reducing both mixing time and packaging waste.

Application Rates & Timings:

CEREALS :	Apply @ 1.25-2.5 l/ha @ GS (Zadoks) 21-23. Repeat at G.S. 30-33.
OILSEED RAPE :	Apply @ 1.25-3.0 l/ha from 4-6 true leaves. Repeat at 14-21 day intervals
LETTUCE/LEAFY SALADS :	Apply @ 2.0-3.0 l/ha from 10-14 days post planting. Repeat at 10-14 day intervals.
CUCURBITS :	Apply @ 1.5-3.0 l/ha @ 4-6 true leaves. Repeat at 10-14 day intervals.
BRASSICAS :	Apply @ 1.5-3.0 l/ha from 4-6 true leaves. Repeat at 14-21 day intervals.
ROOT CROPS :	Apply @ 1.5-3.0 l/ha from 4-6 true leaves. Repeat at 14-21 day intervals.
PEAS & BEANS :	Apply @ 1.5-3.0 l/ha @ 6-8 true leaves. Repeat at 10-14 day intervals.
ALLIUMS :	Apply @ 1.5-3.0 l/ha @ 4-6 true leaves. Repeat at 14-21 day intervals

Propagated plants will benefit from an application of **TenSile** via irrigation techniques. Apply at 3-4ml per litre of water just prior to planting out.

TenSile is best applied as a foliar spray at water rates of 200-600 l/ha depending on the crop type and stage of growth.

Mixing Instructions:

TenSile should be added to the tank with a minimum of 50% of the water volume present. Agitation should be maintained during mixing and throughout the spraying operation. All spraying equipment and lines should be flushed through thoroughly with clean water before and after the spraying operation.

Compatibility:

TenSile is best applied as a single product. If tank mixing is required, a jar test with all proposed co-products at the required dilution rates should be carried out. **TenSile** is alkaline in nature and should not be mixed with acidic fertilisers or chemicals.

Pack Sizes: 2 x 10L and 1000L IBC

Check compatibility prior to adding to the spray tank. Consult your local advisor or Ilex EnviroSciences for specific recommendations. Do not apply in strong sunlight. Efficacy may be affected by crop health, growth stage and weather conditions. Ilex EnviroSciences accepts no liability for damage to treated crops.