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**PACIFIC POWER™**



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# PACIFIC POWER™

## GENERAL INFORMATION

PACIFIC POWER™ is a practical and cost-effective bio-organic granule with unique biological activator complex and cofactors, specifically designed to blend with chemical fertilizers.

PACIFIC POWER™...

1. A new generation eco-fertilizer
2. All of the components are natural
3. Increases chemical NPK use efficiency

PACIFIC POWER™ is a solid organic granule composed of humus substance with specially fermented active concentrates. The fermented concentrates contain unique combination of biological complex, enzymes, peptides, amino acids, minerals and other co-factors which are critical for the breakdown of soil organic materials. Humus substances contain natural humic acids and fulvic acids. The humic acids and fulvic acids are recognized to be useful for soil fertility by absorbing and translocating nutrient ions in the soil.

## SPECIFICATION

Humus/Leonardite/Lignite:	69 – 70%
Phosphate rock (optional):	19 – 20%
Starch:	5 – 8%
Bio-Activators	2 – 4%
Water:	3% max.
Size:	SGN 250 (~2.5mm) SGN 350 (~3.5mm)





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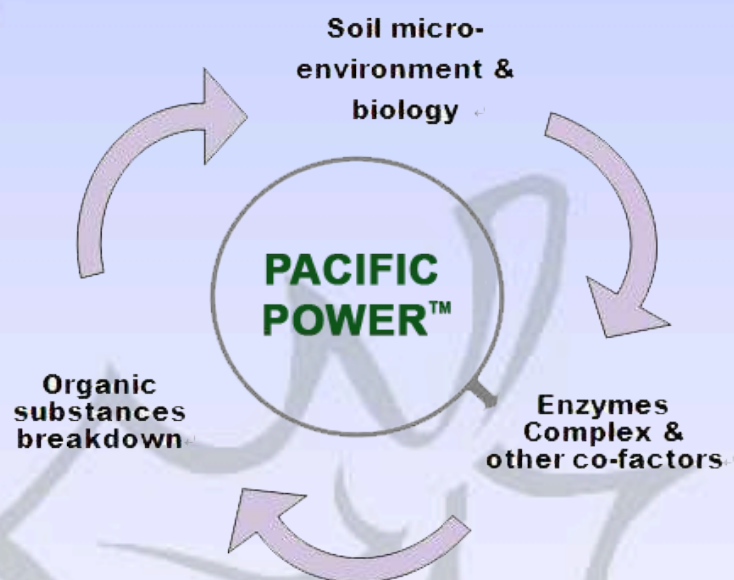
# PACIFIC POWER™

## Chemical composition

N (Nitrogen):	0.6%	Mn (Manganese):	550ppm
P (Phosphorus):	5.44%	Zn (Zinc):	0.13%
K (Potassium):	0.41%	Cu (Copper):	29ppm
Ca (Calcium):	9.61%	Mo (Molybdenum):	5.7ppm
Mg (Magnesium):	0.83%	B (Boron):	50ppm
S (Sulphur):	3.67%	Cl (Chloride):	420ppm
Fe (Iron):	2.80%	Humic acid:	14.25%

The fermented biological concentrate, enzyme complex and cell growth cofactors are the key ingredients in PACIFIC POWER™ granules.

The biological concentration, enzyme complex and co-factors catalyse the breakdown of plant residue, polysaccharides and polypeptides, etc. in soil which further enhance the biodynamics in the soil microenvironment. This mechanism can effectively improve the nutrient cycling in soil.





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## FEATURES AND BENEFITS

### Functions of formulated fermented biological concentrate and the enzyme complex

Biological Complex	Functions
( <i>Bacillus polymyxa</i> )	Decomposes soil nutrients
( <i>Bacillus subtilis</i> )	Decomposes soil nutrients and increases disease and stress tolerance
( <i>Trichoderma harzianum</i> )	Breaks down plant residues and enhance disease and insect tolerance
Yeast extract ( <i>Saccharomyces cerevisiae</i> )	Enhances soil bioactivities and improves NUE

### The benefits of using or bulk blending PACIFIC POWER™ with chemical fertilizers

1. Improves crop yield
2. Increases effectiveness of chemical fertilizers
3. Increases diseases tolerance of crops
4. Breaks down plant residue
5. Improves soil condition

### Benefits to chemical fertilizer manufacturers

1. Increases fertilizer (N, P, K) nutrient use efficiency
2. Enables product differentiation in existing and new markets – meeting UN/FAO recommended agricultural system e.g., IPNS and balanced fertilization
3. Potential cost reduction, increases production capacity
4. Stable supply and ease of blending with full range of chemical products
5. Enable making environmentally friendly claims – better image and corporate citizenship





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## BLENDING OF PACIFIC POWER™ WITH CHEMICAL FERTILIZERS

PACIFIC POWER™...

1. Different granule sizes for easy blending
2. Odorless and clean
3. Guaranteed O.M. content (> 30%) and quality
4. Proven in improving NUE
5. Improves root system and soil fertility
6. Breaks down palm residues
7. Low moisture and long shelf life (3 years)



Countries	Target crops	PP ratio	CF ratio	CF type	Results
China	Rice	30 – 70%	30 – 70%	Urea and 15-15-15	Yield increased by ~10% Tea tolerance to frost and diseases
Korea	Rice and peppers	40 – 60%	40 – 60%	Various NPK	Yield increased by ~10 – 28%
Australia	Trees	~50%	~50%	NPK	Yield and quality improved, tolerance to drought and diseases
Indonesia	Oil palm	~20 – 30%	~70 – 80%	NPK	Yield sustained or increased Root system distinctly improved (seedling)
Malaysia	Oil palm	~20%	~80%	NPK and slow-release fertilizer	Yield improved