HOW PHOSPHOGYPSUM WORKS:
FROM BYPRODUCT TO RESOURCE:

What is Phosphogypsum (PG)?

It is a **by-product** from making phosphate fertilizers.

PG is made up of mostly gypsum, a common mineral.

WHY DOES IT MATTER?

By-product volumes: For every 1 tonne of phosphoric acid, up to 5 tonnes of PG are produced.

Packed with potential: Very similar to natural gypsum, a widely used mineral rich in calcium and sulphur. PG can help reduce waste, improve soil and replace raw materials in construction.

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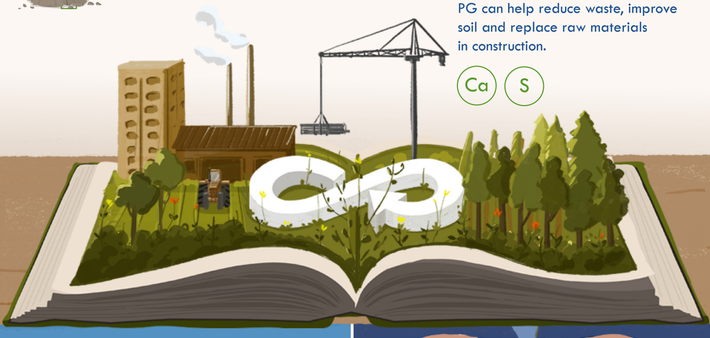


Infrastructure Base Mix
Creates durable road bases, cutting the need for new sand and gravel.

Soil Booster:
Rich in calcium and sulphur to build stronger, more stress-tolerant plants.

Construction Materials:
Strengthens cement setting and improves plaster and board finish quality.

Fights Salty Soil:
Removes excess soil salinity and improves crop yields.

PG KEY USES & BENEFITS

In Construction
Soil & Plant Health
Ecosystem Restoration
Innovation & New Uses

Medical Applications:
Scientists are exploring its use in future cancer treatments.

Supports Biodiversity:
PG soil mixes restore forests, reverse desertification and increases carbon storage.

Secondary Raw Material:
Can be a source for valuable elements, limiting resource extraction.

Helps Restore Soil:
Substitutes stressed resources to preserve habitats and landscapes.

Green Packaging:
Being tested for use in biodegradable packaging and special paints

SCIENCE & SAFETY

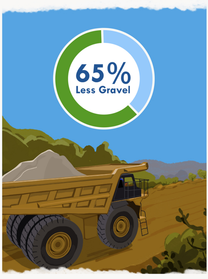
Rigorous Testing:
Continuous monitoring to ensure all PG products meet health and environmental safety standards.

Safe Handling:
Heavy metals are managed through careful blending and treatment.

As Cd Hg Cr

Environmental Care:
Water, air, and land are regularly checked to stay within safety limits.

KEY STATS



Conserve primary resources by substituting them with PG.

On salty land, PG can boost harvests by **10-50%** depending on the crop and location.

Using PG instead of mining new materials helps reduce carbon emissions

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