

THIRD TRIANGLE

NATURAL PERFORMANCE MATERIALS

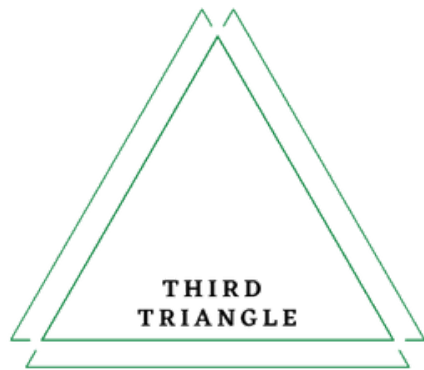
"We aim to provide natural sustainable materials for all your needs"

3rd Triangle

BY

**Digital Company for
Raw Material Grinding**





Natural Performance Material

About Us:

Third Triangle was founded by a team of experienced professionals in the field of Mining, Agriculture and chemistry. Our team worked tirelessly to find & procure the best quality mine that provide exceptional physical & chemical properties.

Third Triangle aims to promote products which consists 100% of natural materials for applications in the fields of Agriculture, Horticulture, Viticulture, Animal Feed, Aqua Culture and water treatment. Through constant R&D, Third Triangle is working to encompass Zeolitic materials in more applications as an environmentally friendly material.

Our vision is to expand to partake in the global effort to decrease the global demand on in-organic fertilizers, soil conditioners and filtration medias by providing natural solutions. We aim to work hand in hand with customers in incorporate smart sustainable solution in their work.

What are Zeolites?

Zeolites are natural Alumino-silicates that have Honeycomb micro structure, low density and bubble shaped cavities. Zeolites were historically formed by chemical reactions between volcanic materials & ground water. Third Triangle mine provides unique Zeolites with exceptional properties.

Properties of Third Triangle Zeolitic Tuff:

- High Cation Exchange Capacity (CEC)

CEC is a measure of the capacity of a material to hold exchangeable nutrients, such as Potassium & Ammonium ions. Third Triangle Zeolitic tuff holds essential nutrients within its micro structure and acts as a slow release fertilizer.

- High Porosity:

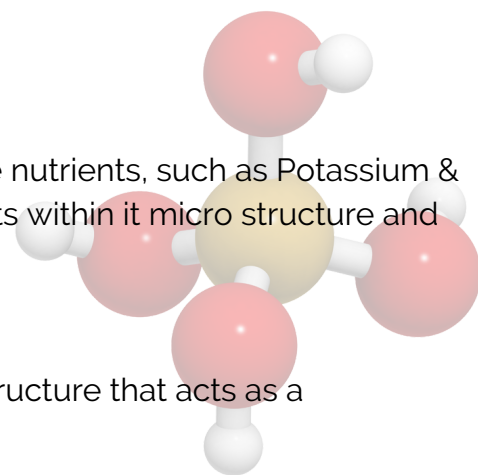
Zeolitic Tuff is highly porous and has a unique honey comb micro structure that acts as a molecular sieve and can trap particles within its micro-structure.

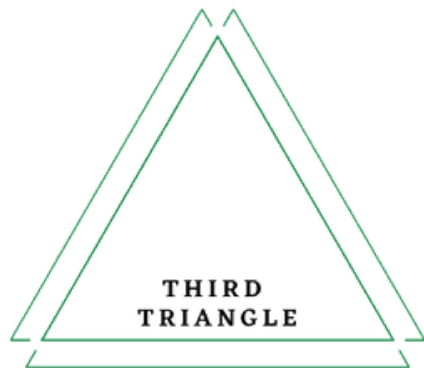
- High Hydration/Dehydration Capacities:

Due to its unique micro structure, Third Triangle Zeolitic Tuff can increase water holding capacity of soils upto 50%.

- Lightweight:

Third Triangle Zeolitic Tuff is lightweight with a bulk density as low as (0.7 g/cm^3)

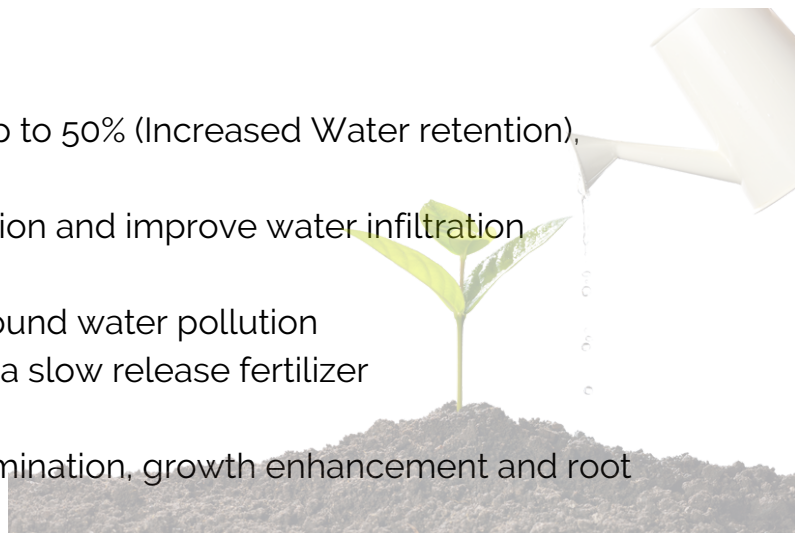




Natural Performance Material Natural Performance Material

Advantages of using Zeolitic Tuff:

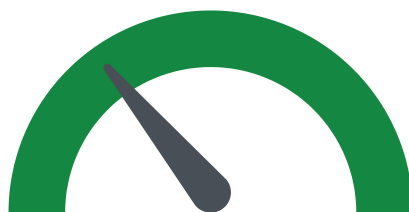
- Reduces plant watering frequency by up to 50% (Increased Water retention), decreasing water consumption.
- Increases Soil porosity, reduce compaction and improve water infiltration
- Decrease Soil Salinity
- Protection against drought, frost and ground water pollution
- Zeolite utilizes soil nutrients and acts as a slow release fertilizer
- Increases soil fertility
- Enhances plant growth (Assisting in germination, growth enhancement and root establishment)



Qualitative advantages of applying Zeolitic Tuff



Crop Yield
Upto 100% Increase



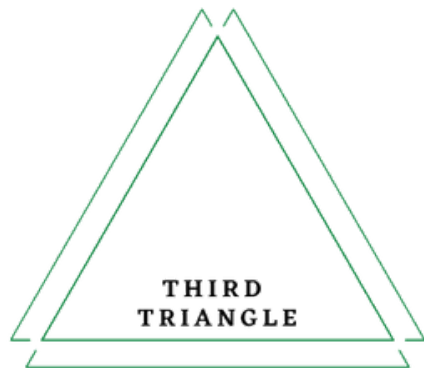
Green Factor
Upto 30% Increase



Water Holding Capacity
Upto 60% Increase

Applications of Zeolitic Tuff:

- Agricultural Planting
- Tree & Shrub Planting
- Pot Mixtures
- Root Dipping (Trees, Vines, Strawberries, Roses).
- Reforestation
- Viticulture
- Golf Courses and Turf Installation, (Zeolite eases the maintenance and requires less watering)
- Hydroponic Growing Mediums
- Lawn Grass & Polo Fields (Assists to withstand climatic conditions and strengthens roots to withstand wear, removes odours)



Natural Performance Material

Chemical Properties

Component	Min %	Max %
CaO	9	14
SiO ₂	30	50
Fe ₂ O ₃	8	16
Al ₂ O ₃	8	15
MgO	-	10
Na ₂ O	-	6
K ₂ O	-	3

Physical Properties

Property	
CEC	Upto 120 meq/100gram
Colour	Black/ Brown
PH	7.5-8.2
EC(mS.cm-1)	0.01-0.2
Bulk Density (g/cm ³)	0.8-1.3
Water Retention	Upto 60% Higher than Normal Soil

Testimonials

"I have applied ZeoJo on projects to grow vegetables and palm trees, the results were excellent in saving water, reducing fertilizer consumption and increasing growth & yield."

Eng. Mohammad Abu Ayash (Jordanian Agricultural Engineers Association)



Involved with the technologies of soil minerals & substrates, we are working with (ZeoJo) Zeolite that is known for its chabazite content. Ideal for use in, Agriculture, landscaping, roof gardening, viticulture and horticulture. Their product is important for our technology due to high quality, given its high Cation Exchange capacity & Water Retention for use in our substrates.

Mr.Luca Giuliana (Enersoilland Limited, Italy)