

TECHNICAL SHEET PHOSPHATE ROCK

PRODUCT IDENTIFICATION PHOSPHORIC ROCK

PRODUCT PRESENTATIONS

- In bulk.
- Bags

MINERALOGY

Predominant mineralogical species fluorapatite

COMPOSITION OF PHOSPHORUS ROCK

Element	Method	Und	Average
P ₂ O ₅	G-0759	%	22.1
SiO ₂	G-0759	%	17.9
Al ₂ O ₃	G-0759	%	2.8
CaO	G-0759	%	37.3
Fe ₂ O ₃	G-0759	%	1.0
K ₂ O	G-0759	%	0.5
MgO	G-0759	%	0.9
Na ₂ O	G-0759	%	2.6
SO ₃	G-0759	%	2.2
Cd	G-0488R	ppm	60
CaO /P ₂ O ₅			1.7

Neutral citrate ammonium plus water Solubility	G0773	%	~ 3.0
2% Citric acid Solubility	G0498	%	~ 10.8
2% Formic acid Solubility	G0499	%	~ 13.4

Method	
G-0759	Ores: Phosphorus Rock - Multielement Analysis by X-Ray Diffraction (Lithium Borate Fusion)
G-0488R	Geochemical Exploration Samples: Multielement Determination by ICP-OES - Agua Regia Digestion (HNO ₃ , HCl)
G0773	Phosphorus soluble in neutral ammonium citrate but phosphorus soluble in water - Gravimetric Method: It is based on the extraction of phosphorus with water and neutral ammonium citrate at 65°C, followed by precipitation of the phosphorus extracted as quinoline phosphomolybdate, filtration, drying and weighing of the precipitate.
G0498	Phosphorus soluble in 2% citric acid – Gravimetric method: It consists of solubilizing the phosphorus in the sample with a citric acid solution, precipitating this phosphorus in the form of quinoline phosphomolybdate, filtering, drying and weighing this precipitate
G0499	Extraction Method of Phosphorus Compounds Soluble in Formic Acid (Methanoic): An extraction is carried out by digestion in a formic acid solution, at a temperature of approximately 20°C with well-defined stirring.

DENSITY

~ 1.4 – 1.6 t/m³

GRANULOMETRY

90% < 1mm

USE

Natural fertilizer for direct application.

HANDLING

Store in a cool, dry place away from heat and sun.

COUNTRY OF ORIGIN

Perú