

HYDROGEL

FLUID LOSS CONTROL ADDITIVE

DESCRIPTION

Hydrogel, water absorbent polymer, is a crosslinked modified polyacrylamide which absorbs many hundreds of times its own weight in water and swells to form a durable crystalline gel. These gel particles do not dissolve, but continue to swell with time, making a seal in the pore spaces of formation; thus, eliminating fluid loss.

ADVANTAGES

1. Economical to use – absorbs many hundreds of times its own weight in water as crystals swell to form a rigid gel.
2. Rapid water absorption.
3. Less susceptible to loss of swelling ability due to electrolyte content or pH.
4. Controlled release of water once the crystals have been swollen.

TYPICAL PROPERTIES

Appearance : Free flowing, off-white crystals or powder. Particle size average is 1-3 mm.

Powdered material is minus 225 mesh.

Bulk Density : 700g/l (uncompacted crystals).

Absorption : Up to 500 gallons of water per gram (depending on water quality).

RECOMMENDED USAGE

For maximum results, every pound (0.45 kg) of **Hydrogel** should be prehydrated with three gallons (11.36 liters) of water about 10-15 minutes before introducing to excavation. Upon hydration, pour into excavation allowing hydrated polymer to migrate into loss zone. Repeat as necessary. Generally, one pound (0.45 kg) of **Hydrogel** per foot (0.30 meter) of diameter of hole will control moderate losses. For severe losses, this amount will require doubling to achieve complete seal.

PACKAGING

Available in 5 -10 kg plastic pails.



AGRARIA VERDE

construção e meio ambiente