

Special Thickening Effect Agent

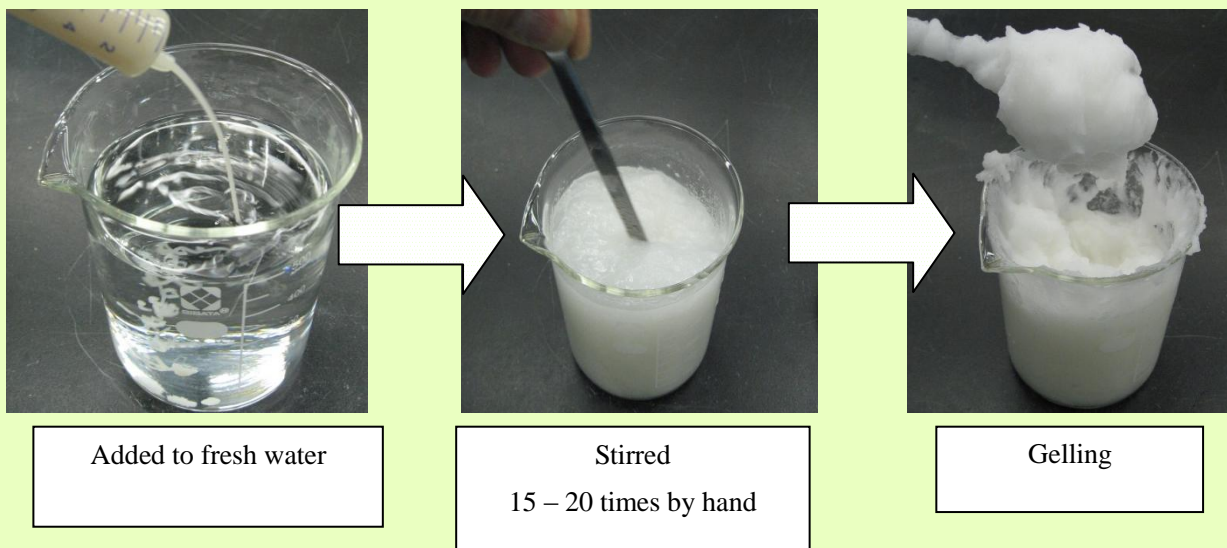
TG Jeru

Due to its special thickening effect, TG Jeru can be used for mud water control (viscosity, blocking water, suppressing separation) when performing the mud water type shield tunneling method and as a mud additive when performing the pressurized mud shield tunneling method. TG Jeru is a special macromolecular stabilizer which can also be used with various jacking methods (dense mud, mud water, and pressurized mud).

Features of TG Jeru

- TG Jeru has thickening and water blocking properties and is capable of retaining the stability of blade separation during ground excavation of sand and gravel.
- Unlike conventional macromolecular stabilizers, TG Jeru is a liquid product with immediate effects which improves work efficiency.
- TG Jeru also has the effect of preventing lost circulation as it has an excellent property of forming a mud film.

Thickening and Water Retaining Properties of TG Jeru

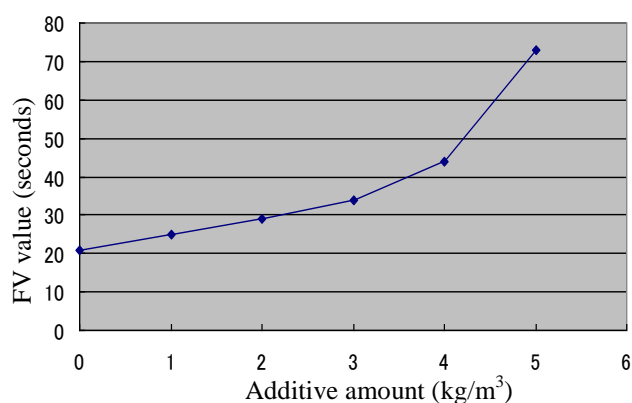


When TG Jeru is dissolved into water, due to the thickening and water retaining effects thereof, the water forms a gel as shown in the above photos. With such effects, TG Jeru exhibits the effects of blocking water in strata of high permeability and in the event of a blowout.

As TG Jeru has excellent solubility, it can be quickly dissolved by being stirred approximately 15 to 20 times.

Thickening Effect on Mud Water

Clay Additive amount (kg/m ³)	TG Jeru Additive amount (kg/m ³)	FV value (seconds)	Specific gravity
180	0	21± 1	1.10
180	1	25± 1	1.10
180	2	29± 1	1.10
180	3	34± 1	1.10
180	4	44± 1	1.10
180	5	73± 1	1.10



Dissolution Characteristics of TG Jeru

Dissolution concentration (kg/m ³)	Dissolution viscosity (mPa.s)
3	50
5	160
7	350
9	750
12	1500
13	3000

Property Specifications of TG Jeru

Appearance: Pale yellow liquid
True specific gravity: 0.95 – 1.05
Packaging: 18 kg can
Main component: Organic synthetic polymer

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