

Special Thickening Effect Agent

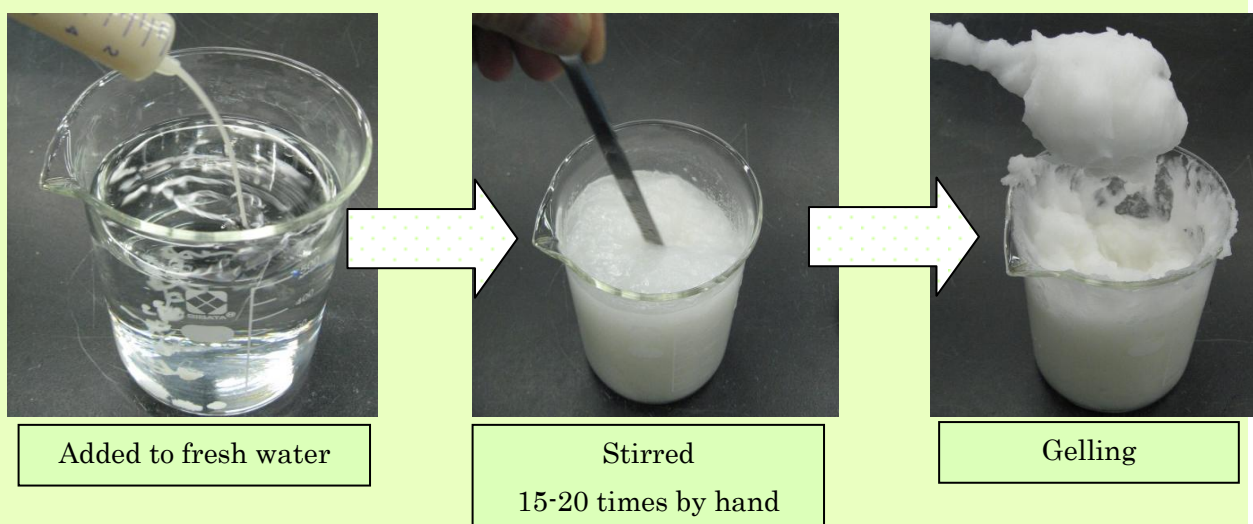
T G Gel

Due to its special thickening effect, TG Gel 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 Gel is a special macromolecular stabilizer which can also be used with various jacking methods (dense mud, mud water, and pressurized mud).

Features of TG Gel

- TG Gel 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 Gel is a liquid product with immediate effects which improves work efficiency.
- TG Gel also has the effect of preventing lost circulation as it has an excellent property of forming a mud film.

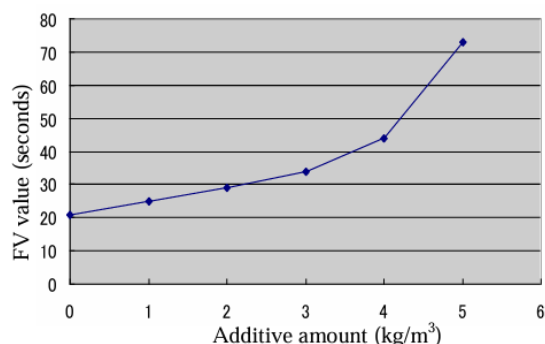
Thickening and Water Retaining Properties of TG Gel



When TG Gel 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 Gel exhibits the effects of blocking water in strata of high permeability and in the event of a blowout. As TG Gel 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 Gel

C o n c e n t r a t i o n (kg/m ³)	Viscosity (mPa · s)
3	50
5	160
7	350
9	750
1 2	1500
1 3	3000

Property Specifications of TG Gel

Appearance	: Pale yellow liquid
Specific gravity	: 0 . 9 5 ~ 1 . 1 5 (2 5 °C)
Packaging:	: 1 8 k g can

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