

KT-GEL

(Biodegradable Polymer)

KT-GEL has been used in many fields of constructions work as a thickener for the mud pressure shield tunneling method as well as a mud working agent for the slurry shield tunneling method.

KT-GEL is especially suited for sand and gravel pump transfer in the mud pressure shield tunneling method.

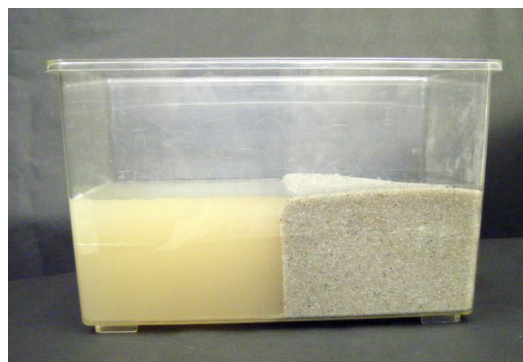
Furthermore, by adding and mixing OK-02L with excavated soil, the viscosity of KT-GEL is eliminated, and thus classification of the sand and gravel is achieved with ease.

◎Slurry Shield Tunneling Method Mud Working Agent

Through the viscosity of the slurry, the characteristic yield value, gel strength and so forth of the rheology (plasticity flow) as well as the nature of formation of mud barriers, its lubricity, et cetera, the slurry upholds its most important function while being non-pollutant and, therefore, does not contribute to environmental pollution.

KT-GEL FV,YV

Additive (%)	FV (sec.)	YV (bl/100ft ²)
0.35	25.0	7
0.4	28.0	8
0.45	31.0	10



◎Mud Pressure Shield Tunneling Method Pressurized Mud Agent

The thickener (KT-GEL), which uses pulp as its principle material, is an available water-soluble, high-polymer cellulose agent.

The aqueous solution is a lubricant and has exceptional water-holding capacities, and, as a non-pollutant, is a completely safe material.

KT-GEL composition (1m³)

Clay Layer	5 to 10 kg or less
Sand Layer	10 to 15 kg
Gravel Layer	14 to 20 kg



◎Viscosity Neutralizer OK-02L

The viscosity neutralizer OK-02L makes it possible to decompose the KT-GEL contained in underground emissions within a short period of time, recovering the original state close to that of the ground. Materials are mainly composed of a cellulase agent.

The procedure and treatment of construction site dirt is simple. With the addition of OK-02L, it is possible to reform soil removed from construction sites. By classifying the excavated soil, it is also possible to make effective use of the resources.

Composition : 2kg/m³

Amount Used : 10% of the Pressurized Mud Agent [KT-GEL] Injection Amount

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